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COMPONENT BREAKOUT COMPUTER MODEL MAINTENANCE MANUAL

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TABLE OF CONTENTS

TABLE OF CONTENTS

Appendices

COMPONENT BREAKOUT COMPUTER MODEL

1.0 Executive Summary

Component breakout is the process whereby the government purchases a component that was previously provided as contractor furnished equipment and provides the item to the prime contractor to be incorporated into the end item. DOD policy concerning breakout states that it should be used if substantial net cost savings will probably be achieved and this action will not jeopardize quality and performance. Concentration of breakout effort should be on the components of the high dollar value systems, since these represent the highest costs and offer the potential for the greatest savings. In order to realistically estimate the savings associated with component breakout, the government must be able to compute the offsetting costs associated with the government furnished equipment operation.

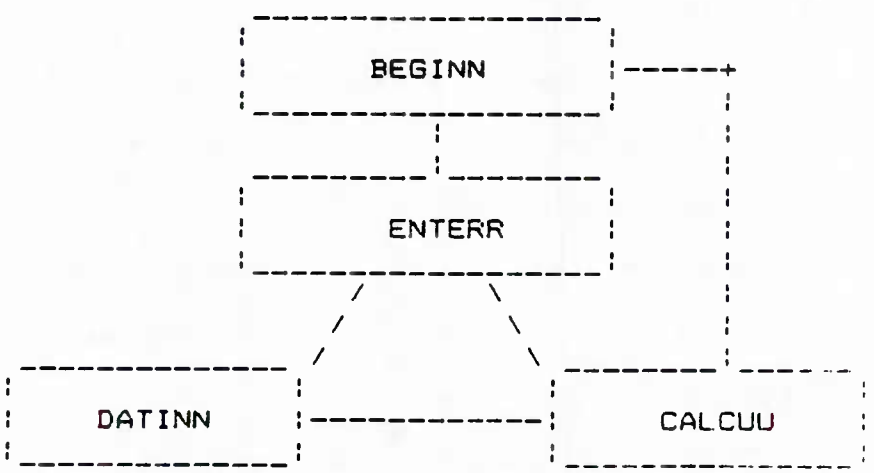
This computer model is a user-friendly, menu-driven tool that can be easily used to estimate component breakout offsetting costs. In addition an estimate of the lost opportunity costs, the potential loss to the government of devoting time and effort to components at the expense of the total system, are included in the results.

This maintenance package for the model consists of a computer disc (floppy disc) and a maintenance manual. The disc contains the component breakout model (CBOM) in two forms, compiled and uncompiled basic programs. Each will provide the

user with the same screen and printer outputs. The CBOM can be operated on any IBM or IBM compatible personal computer or on the current Zenith personal computers. The user should assure that the disc he/she is using is compatible with his/her computer. The model was validated by using current studies completed for or by the Aeronautical Systems Division (ASD) and the Air Force Logistics Command (AFLC) at Wright-Patterson AFB, Ohio. Several ASD personnel have exercised the model and are pleased with its ease of operation and clarity of results.

2.0 The Basics of the Model

2.1 General: The computer disc that is provided with this manual contains the component breakout model (CBOM) in two forms, compiled and uncompiled basic programs. Each will provide the user with the same screen and printer outputs. The CBOM is composed of the following sub-programs and interact with each other as shown in Figure 1.



NOTE: The uncompiled subprograms end in double letters: NN, RR, and UU. The compiled versions end in NY, RY, and UY.

Figure 1, Submodels.

2.1.1 Subprograms:

```
**************************************************
*                                                *
*                    WARNING                     *
*                                                *
*     Assure that CapsLock is on. Use only       *
*     capital letters with the model.            *
*                                                *
**************************************************
```

2.1.1.1 BEGINN (BEGINY): This is the subprogram that includes the model assumptions and general help information. This subprogram automatically loads the ENTER (ENTERY) file for data entry or changing.

2.1.1.2 ENTERR (ENTERY): This is the subprogram that enables the user to enter data concerning the specific component breakout scenario. This subprogram includes the capability to view the data and data screens, to create new data files, and to modify previously created data files. Each data entry question is explained by use of individual help screens for each question. Upon completion of the data entry the user can either view the entered data or begin the calculations.

2.1.1.3 DATINN (DATINY): This subprogram can be used to access each of the data files on the floppy disc and to display these data with the appropriate questions on the screen and on the printer. Upon completion of the data display the subprogram automatically loads and runs the calculations subprogram.

2.1.1.4 CALCUU (CALCUY): This subprogram is used to calculate the costs of component breakout. The costs for each activity associated with component breakout is tabulated. The lost opportunity costs, which are the difference between the budget per hour per person on the prime contract minus the difference between the prime CBO cost and the new contractor cost divided by the hours and persons required for the CBO effort. This subprogram provides the user with the options of printing the results or viewing them on the screen. Upon the completion of the results output the user can go to the BEGINN (BEGINY), the DATINN (DATINY), the ENTERR (ENTERY), restart the calculations, or stop the computer operation.

2.1.2 Non-Compiled Models: The non-compiled models require that BASIC be loaded on the personal computer. First load BASIC. After the normal BASIC prompts appear place the CBOM Disc into the A drive. Now type LOAD "BEGINN",R (Ret). The model will now prompt the user with all the necessary information to intelligently operate the CBOM. Should the user wish to access a particular submodel, merely type LOAD "submodel name" and Return.

2.1.3 Compiled Models: The compiled models can be accessed from the DOS prompt, A>. With the computer on, place the CBOM disc in the A drive. Assure the the prompt is A>. Now type BEGINY (Return). The model will now prompt the user with all the necessary information to intelligently operate the CBOM. Access to the other submodels is possible by typing the appropriate name after the DOS prompt A>.

2.1.4 Input Data: The data that is input into the model via the ENTERR subprogram can be view either on the screen or on the printer. Should the user require an expanded definition they are included in the help information in the ENTERR subprogram.

2.1.5 Model Results: The execution of the calculation program, either CALCUU OR CALCUX, will reflect the hours used in each activity, the cost, the inflated costs, the costs of the fringes associated with costs of employee benefits, and the total costs. These total costs are the summation of the inflated costs and the fringe benefits. Note that this output includes the run name and the date of the run.

The following are short definitions of the data in the output:

SCREENING	The identification and selection of the items for CBO.
PRICE ANALYSIS	The act of estimating a fair price for the CBO.
SOURCE APP	This is the act of approving new sources that can supply the needed CBO items.
SOURCE DEV	This is the act of developing new sources.
SOURCE SEL	This is the act of selecting a new source.
REVERSE ENG	This is reverse engineering, a technique for engineering from the final item backwards.
FIRST ARTIC	This is the first article evaluation.
CONTRACTING	This is the total SPO contracting activity.

GENERAL SPO	This is the general SPO cost for the CBO items.
PRE-AWD SVY	This is the pre-award survey.
SPO TOTALS	This is the total of the SPO costs for the CBO items in the various columns (the summation of the columns.)
SECURITY	This is the cost of CBO security.
EEO SUPPORT	This is the cost of equal opportunity actions associated with the CBO.
SOC-ECON CST	This is the socio-economic costs associated with the CBO.
WARRANTEE CST	This is the cost of warrantees.
TERMIN CST	This is the termination cost of the prime.
NEW EQUIP	This is the cost of purchasing new equipment by the new contractor.
FAC MOD CST	This is the cost of modifying facilities.
ADMIN & AUD	This is the costs associated with administrative and audit cost associated with CBO.
TRANSPORTATION	This is the cost of transporting the CBO from the new contractor facility to the prime.
SOLICITATION	This is the cost of the solicitation preparation.
TOTAL CBO COST	This is the summation of the column costs and reflects the total cost of the CBO items to the government.

SAVINGS	This is the savings to the government and is determined by subtracting the TOTAL CBO COST from the difference between the prime cost and the new contractor cost.
LOST OPT COST	This is the difference between the average value of SPO personnel's time devoted to CBO rather than the SPO prime contract.
THEO SAVINGS	This is the theoretical savings that includes the SAVINGS and the LOST OPT COST.

2.2 Equipment Required: The Component Breakout Model runs on the IBM Personal Computer or the Zenith 100, 148 or other IBM compatible equipment with a minimum of 128K of RAM. The DOS 4.2 or later versions may be required on other than IBM equipment.

2.3 Personnel Requirements: Users need not be familiar with BASIC programming, however, they should be generally familiar with the machine they will use. It is imperative that users be very familiar with the operation of the System Program Office that is using the model to determine the economic feasibility of component breakout. Questions that must be answered in the model will require intimate knowledge of the entire CBO operation.

3.0 Messages

3.1 Machine Error Messages: Refer to your computer manuals and specifically the operating system and BASIC error message sections.

3.2 Model Error Messages: These messages are caused by an error in the operation of the model. The user can refer to the machine

error messages noted in 3.1, above. The following is a listing of the most common error messages that the users may see.

DISK FULL	all storage space on the disc is used. Make another copy of CBOM and begin again using the copy.
FILE ALREADY EXISTS	select a new file name and continue.
FILE NOT FOUND	a file that does not exist was called. Check the file name.
OUT OF DATA	print out the DATINN or DATINX file and check for errors. Typically this happens when the ENTERY or ENTERR program is interrupted before all data are entered. Re-enter all data for the data file.

NOTE: WHEN ENTERING DATA INTO A PREVIOUSLY PREPARED FILE USING THE ENTERR OR ENTERY PROGRAM IT WILL BE NECESSARY TO TYPE IN THE ENTIRE NEW NUMBER. THE PROGRAM WILL ENTER EXACTLY WHAT IS TYPED NOT WHAT IS ON THE SCREEN.

4.0 Maintenance

4.1 Non-Compiled Subprograms: The non-compiled subprograms can be modified using normal BASIC procedures as outlined in the BASIC manuals that are provided with the BASIC software. It is assumed that any person that attempts to modify these subprograms should be literate in the BASIC language and therefore, the standard BASIC procedures will not be included in this manual.

4.1.1 BEGINN: Both help and assumption information can be altered using normal BASIC procedures. However, should either be expanded significantly, assure that only one screen's worth of data is presented for each screen. Further modifications to the model may include the option to access any of the other three subprograms rather than just the ENTERR subprogram. This will require the development of an additional screen. If the initial welcome screen remains on the screen too long or not long enough, change the 2000 value on line 460 to less or more, respectively.

4.1.2 ENTERR: The ENTERR program contains all of the screens that are required to enter the model data. The model currently contains seven screens. If it is necessary to increase the number of screens it will not be necessary to increase the dimension statements, which are set to accept nine screens. The model is currently structured to accept two additional screens or a total of sixteen additional questions. This can be accomplished by deleting the GOTO on line 6140. If any question is changed so that the response is different (y/n versus a number response), then it will be necessary to change the GOSUB of the appropriate entry. If the data input is not selected for viewing, then this subprogram will automatically open the calculations (CALCUU) model. Future modifications of the CBOM may include changes to these options for the ENTERR subprogram.

4.1.3 CALCUU: The CALCUU subprogram contains all of the equations and parameters that with the entered data computes the

results. If any questions are changed in ENTERR, then it may be necessary to alter the value conversions listed on lines 650 to 780. Other changes can be made using normal BASIC procedures.

4.1.4 DATINN: The DATINN program contains the questions and the data input in a form easy to read. This program is simple and can be changed using normal BASIC procedures.

4.1.5 Data Files: The data files are produced whenever the ENTERR subprogram is executed. As more and more data files are added to the disc it can become filled. However, before this occurs more files will be included on the disc than can be properly displayed each time the user must identify a data file. When this occurs copy the data files to a new disc and then erase these files from your CBOM disc. If these files are needed later they can then be copied to the CBOM disc.

4.2 Compiled Subprograms: All that has been stated above concerning the non-compiled subprograms and data files will have to be accomplished if the present subprograms are to be modified. Once the above has been accomplished then the normal compiling functions will have to be completed in order to have a current compiled version of the CBOM. Unfortunately, since there are small differences in the compiled and non-compiled BASIC programs, it has been necessary to identify the non-compiled versions with the double letter endings for the program names and the Y ending for the compiled or to be compiled subprograms. This means that changes made to the non-compiled programs will have to be also changed on the to be compiled programs. In addition, be aware that the CBOM is

provided in two compiled versions, one for the IBM and IBM compatibles and one for the Zenith personal computers that are not IBM compatible. Each disc is properly marked to indicate type of compilation.

5.0 Operator's Manual and Final Report

The Operator's Manual contains the information necessary to intelligently operate the Component Breakout Model. This manual includes the general model assumptions and the descriptions of all of the cost factors of the model. Normally a disc with the compiled version of the model is included with this manual.

The Final Report contains an executive summary, an extensive bibliography, and a literature review of the component breakout information that was available during early 1987.

These documents and computer discs for the Component Break Out Model can be obtained from PJSA, Inc., 1390 Rawlings Dr., Fairborn, Ohio 45324, (513) 878-4586 or Universal Energy Systems, Inc., 4401 Dayton-Xenia Rd., Dayton, Ohio 45432, (513) 426-6900.

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A. COMPUTER PROGRAMS

A.1 BEGINN

```
^ REM   ....................BEGINN.BAS.........................
  REM THIS IS THE START OF THE MAIN PROGRAM
0 REM
0 KEY OFF
0 REM    *********************************************************************

0 REM    *

0 REM    *                COMPONENT BREAKOUT COST ESTIMATION MODEL

0 REM    *

0 REM    *      This model was developed by PJSA, Inc. under sub-contract

00 REM    *      with  Universal  Energy Systems, Inc. for the  Air  Force

10 REM    *      Business Research Management Center in 1986-1987.

20 REM   *

30 REM   *      The model is  suplemented  with both a  User's Manual and

40 REM   *      and a. Maintenance Manual.

50 REM   *

 ) REM   *********************************************************************

70 CLS
80 KEY OFF
90 REM   THIS IS A SQUARE SCREEN PROGRAM
00 CLS
10 LOCATE 3,5
20 PRINT "    ------------------------------------------------------------------
__"
30 LOCATE 4,5
40 PRINT "  ///////////////////////////////////////////////////////////////////
//!"
50 LOCATE 5,5
60 PRINT " ////////////////////////////////////////////////////////////////////
//!"
70 LOCATE 6,5
80 PRINT "!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!/!"
90 FOR I = 7 TO 23
00 LOCATE I,5
10 PRINT "!!
!/!"
20 NEXT I
30 LOCATE 8,5
40 PRINT "!!    WELCOME TO
 '!"
50 LOCATE 13,5
```

```
360 PRINT "||                          COMPONENT BREAKOUT
||/|"
370 LOCATE 17,5
380 PRINT "||                                         OFFSETTING COST
||/|"
390 LOCATE 21,5
400 PRINT "||                                                      MODELING
||/|"
410 LOCATE 22,5
420 PRINT "||    by PJSA, Inc.                                                   JAN 8
||/|"
430 LOCATE 24,5
440 PRINT "||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
||/"
450 BEEP
460 I = 1: FOR I = 1 TO 2000:NEXT:CLS
470 REM  THIS IS THE MODEL ASSUMPTIONS SECTION
480 CLS
490 REM
500 LOCATE 10,10
510 PRINT "*************************************************************************
520 LOCATE 11,10
530 PRINT "*
540 LOCATE 12,10
550 PRINT "*        DO YOU WISH TO VIEW THE MODEL ASSUMPTIONS? (Y/N)
560 LOCATE 13,10
570 PRINT "*
580 LOCATE 14,10
590 PRINT "*************************************************************************
600 LOCATE 17,30:BEEP
610 PRINT "NOTE:::: Y MEANS YES"
620 LOCATE 19,30
630 PRINT "          N MEANS NO"
640 LOCATE 12,68:PRINT "> "
650 C$=INKEY$:IF C$="" THEN GOTO 650 ELSE GOTO 660
660 IF C$="Y" THEN GOTO 690 ELSE GOTO 670
670 IF C$="N" THEN GOTO 980 ELSE GOTO 680
680 GOTO 640
690 REM
700 REM THIS IS THE MODEL ASSUMPTION DATA SCREEN SECTION
710 KEY OFF:CLS
720 LOCATE 3,25:PRINT "THESE ARE THE MODEL ASSUMPTIONS:"
730 LOCATE 5,10:PRINT "THE DESIGN IS STABLE."
740 LOCATE 7,10:PRINT "THE DATA PACKAGE IS AVAILABLE."
750 LOCATE 9,10:PRINT "QUALITY AND RELIABILITY OF COMPONENT CAN BE RESOLVE
760 LOCATE 10,15:PRINT "WITHOUT END ITEM CONTRACTOR SUPPORT."
770 LOCATE 12,10:PRINT "TECHNICAL SUPPORT IS MINIMAL OR CAN BE FURNISHED B
780 LOCATE 13,15:PRINT "THE GOVERNMENT."
790 LOCATE 15,10:PRINT "LOGISTICS PROBLEMS ARE MINIMAL."
```

```
300 LOCATE 17,10:PRINT "ADMINISTRATION, MANAGEMENT, AND PERFORMANCE OF THE "
310 LOCATE 18,15:PRINT "OF THE END ITEM CONTRACTOR NOT AFFECTED."
320 LOCATE 20,10:PRINT "DELIVERY OF THE END ITEM NOT JEOPARDIZED."
330 LOCATE 25,25:PRINT "PRESS ANY KEY TO CONTINUE...."
340 A$=INKEY$:IF A$="" THEN GOTO 840 ELSE GOTO 850
350 CLS:LOCATE 3,25:PRINT "THESE ARE THE MODEL ASSUMPTIONS (CONT.)"
360 LOCATE 5,10:PRINT "ADVANCE PROCUREMENT FUNDS ARE AVAILABLE, IF REQUIRED."
370 LOCATE 7,10:PRINT "ANOTHER SOURCE IS AVAILABLE TO PROVIDE COMPONENT."
380 LOCATE 9,10:PRINT "THE COMPONENT HAS BEEN OR MAY BE A GFE ITEM."
390 LOCATE 11,10:PRINT "THE GOVERNMENT WILL ASSUME THE ROLE OF PRIME CONTRACTOR

900 LOCATE 12,15:PRINT "FOR THIS COMPONENT."
910 LOCATE 14,10:PRINT "A SIGNIFICANT COST SAVINGS WILL RESULT FROM THIS "
920 LOCATE 15,15:PRINT "COMPONENT BREAKOUT."
930 LOCATE 17,15:PRINT "SOURCE---ASPR 1-326.4B.
940 LOCATE 25,25
950 PRINT "PRESS ANY KEY TO CONTINUE......."
960 A$=INKEY$:IF A$="" THEN 960 ELSE GOTO 980
970 KEY OFF
980 REM  THIS IS THE MODEL ASSUMPTIONS SECTION
990 CLS
000 REM
010 LOCATE 10,10
020 PRINT "*************************************************************************"
 30 LOCATE 11,10
040 PRINT "*                                                                       *"
050 LOCATE 12,10
060 PRINT "*         DO YOU WISH TO VIEW THE HELP INFORMATION? (Y/N)               *"
070 LOCATE 13,10
080 PRINT "*                                                                       *"
090 LOCATE 14,10
100 PRINT "*************************************************************************"
110 LOCATE 17,30:BEEP
120 PRINT "NOTE:::: Y MEANS YES"
130 LOCATE 19,30
140 PRINT "          N MEANS NO"
150 LOCATE 12,68: PRINT "> "
160 D$=INKEY$:IF D$="" THEN GOTO 1160 ELSE GOTO 1170
170 IF D$="Y" THEN GOTO 1200 ELSE GOTO 1180
180 IF D$="N" THEN GOTO 1370 ELSE GOTO 1190
190 GOTO 1150
```

```
200 REM
210 REM THIS IS THE MODEL HELP INFORMATION SCREEN SECTION
220 KEY OFF:CLS
230 LOCATE 3,20:PRINT "THIS IS THE GENERAL HELP INFORMATION SECTION"
240 LOCATE 4,20:PRINT "^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^"
250 LOCATE 6,15:PRINT "THIS MODEL ASSISTS IN THE COMPUTATION OF THE OFFSETTING'

260 LOCATE 8,15:PRINT "AND LOST OPPORTUNITY COSTS OF COMPONENT BREAKOUT."
270 LOCATE 11,15:PRINT "THE MODEL IS USER FRIENDLY AND WILL PROMPT THE USER AT'

280 LOCATE 13,15:PRINT "EACH STEP.  GENERALLY THE CARRIAGE RETURN NEED NOT BE '

290 LOCATE 15,15:PRINT "PRESSED WHEN ANSWERING QUESTIONS Y (FOR YES) OR N (FOR'

300 LOCATE 17,15:PRINT "NO).  HOWEVER, WHEN ENTERING DATA IT WILL BE NECESSARY'

310 LOCATE 19,15:PRINT "TO PRESS THE CARRIAGE RETURN."
320 LOCATE 22,15:PRINT "HELP INFORMATION IS AVAILABLE FOR EACH DATA ENTRY"
330 LOCATE 24,15:PRINT "QUESTION."
340 LOCATE 25,25
350 PRINT "PRESS ANY KEY TO CONTINUE......."
360 A$=INKEY$:IF A$="" THEN GOTO 1360 ELSE GOTO 1370
370 REM
 30 CLS
390 LOCATE 15,25
400 PRINT "THE MODEL IS LOADING..."
410 LOCATE 20,30
420 PRINT "PLEASE BE PATIENT...."
430 RUN  "ENTERY"
440 END
```

A. COMPUTER PROGRAMS

A.2 ENTERR

```
 0 REM .....ENTERR.BAS.....
 0 REM .....THIS IS THE DATA ENTRY PROGRAM.....
 0 REM
 0 DIM A1(9),A2(9),A3(9),A4(9),A5(9),A6(9),A7(9),A8(9)
 0 DIM A1T$(9),A2T$(9),A3T$(9),A4T$(9),A5T$(9),A6T$(9),A7T$(9),A8T$(9)
 5 DIM A1$(9),A2$(9),A3$(9),A4$(9),A5$(9),A6$(9),A7$(9),A8$(9)
 0 REM
 0 KEY OFF
 0 CLS
 0 LOCATE 3,10
 00 PRINT "*****************************************************************"
 10 LOCATE 4,10
 20 PRINT "*                                                               *"
 30 LOCATE 5,10
 40 PRINT "*              THE FOLLOWING FILES ARE AVAILABLE                *
 50 LOCATE 6,10
 60 PRINT "*                                                               *"
 70 LOCATE 7,10
 80 PRINT "***************************************************************** "
 90 LOCATE 9,5:FILES "*.DAT"
200 LOCATE 18,15:PRINT "NOTE:  ENTER A 4 LETTERS FOLLOWED BY 1 NUMBER"
210 LOCATE 25,15:PRINT "                                                  "
220 LOCATE 19,22:PRINT "FOLLOWED BY .DAT (PLUS CARRIAGE RETURN)"
  0 LOCATE 21,20:PRINT "EXAMPLES: PROD4.DAT   EXAM8.DAT   TEST5.DAT"
240 LOCATE 15,59:COLOR 0,7:PRINT"          ":COLOR 7,0
250 LOCATE 15,5:BEEP
260 INPUT "WHAT PROGRAM DO YOU WISH TO RUN (PROGRAM NAME/NUMBER)";NAMNO$
270 LOCATE 23,15:PRINT "IS THIS A NEW PROGRAM ? (Y/N)":LOCATE 23,47
280 COLOR 0,7:PRINT "  ":COLOR 7,0
290 A$=INKEY$:IF A$="" THEN GOTO 290 ELSE GOTO 300
300 IF A$="N" THEN GOTO  310 ELSE GOTO 340
310 NOLD$="N"
320 GOSUB 930
330 GOTO 380
340 IF A$="Y" THEN GOTO  370 ELSE GOTO 350
350 BEEP:GOTO 270
360 REM
370 NOLD$="Y"
380 REM  THIS IS THE BEGINNING OF THE QUESTIONING .....
390 OPEN NAMNO$ FOR OUTPUT AS #1
400 REM   THIS IS THE START OF SCREEN 1.
410 CLS
420 K=1:HF=0:NOM=0
430 GOSUB 2870
440 LOCATE 3,5
450 PRINT "|                PLEASE ANSWER THE FOLLOWING QUESTIONS
|"
460 LOCATE  8, 5
  0 PRINT "1. HOW MANY AF PERSONNEL CONDUCTED SCREENING?"
480  LOCATE  8,70:COLOR 0,7:PRINT "     ":COLOR 7,0
490 LOCATE 10, 5
```

```
500 PRINT "2. WHAT IS THEIR AVERAGE GS GRADE?"
510  LOCATE 10,70:COLOR 0,7:PRINT "      ":COLOR 7,0
520 LOCATE 12, 5
530 PRINT "3. HOW MANY WEEKS DID THE SCREENING REQUIRE?"
540 LOCATE 12,70:COLOR 0,7:PRINT "      ":COLOR 7,0
550 LOCATE 14, 5
560 PRINT "4. SCREENING REQUIRED WHAT PERCENT OF THEIR TIME?"
570 LOCATE 14,70:COLOR 0,7:PRINT "      ":COLOR 7,0
580 LOCATE 16, 5
590 PRINT "5. WHAT WAS THE PRIME'S PRICE FOR CBO ITEMS?"
600 LOCATE 16,70:COLOR 0,7:PRINT "      ":COLOR 7,0
610 LOCATE 18, 5
620 PRINT "6. WHAT IS THE NEW CONTRACTOR'S PRICE FOR THE ITEMS?"
630 LOCATE 18,70:COLOR 0,7:PRINT "      ":COLOR 7,0
640 LOCATE 20, 5
650 PRINT "7. WHAT IS THE INFLATION RATE (SEE HELP SCREEN)?"
660 LOCATE 20,70:COLOR 0,7:PRINT "      ":COLOR 7,0
670 LOCATE 22, 5
680 PRINT "8. WHAT IS THE FRINGE BENEFIT RATE (SEE HELP SCREEN)?"
690 LOCATE 22,70:COLOR 0,7:PRINT "      ":COLOR 7,0
700 GOSUB 2660
710 REM
720 IF NOLD$ = "N" THEN GOTO 730 ELSE GOTO 740
730 GOSUB 1020
740 GOSUB 1990
750 GOSUB 2070
760 GOSUB 2150
770 GOSUB 2220
780 GOSUB 2300
790 GOSUB 2380
800 GOSUB 2460
810 GOSUB 2540
820 GOSUB 2760
830 IF B$="N" GOTO 400
840 PRINT #1,A1$(K)
850 PRINT #1,A2$(K)
860 PRINT #1,A3$(K)
870 PRINT #1,A4$(K)
880 PRINT #1,A5$(K)
890 PRINT #1,A6$(K)
900 PRINT #1,A7$(K)
910 PRINT #1,A8$(K)
920 GOTO 2940
930 REM        THIS SUBROUTINE ENTERS PREVIOUS DATA INTO THE MODEL
940 OPEN NAMNO$ FOR INPUT AS #1
950 FOR I = 1 TO 7
960 INPUT #1,A1$(I),A2$(I),A3$(I),A4$(I),A5$(I),A6$(I),A7$(I),A8$(I)
970 REM IF EOF(1) THEN END
980 NEXT
990 CLOSE #1
```

```
.000 RETURN
1010 REM        THIS IS THE SUBROUTINE END.............
1020 REM
1030 REM THIS IS THE INPUT DATA FOR THE SCREEN
1040 REM
1050 REM ON HP GOTO 920,930,940,950,960,970,980,990
1060 LOCATE 8,70:PRINT A1$(K)"      "
1070 LOCATE 10,70:PRINT A2$(K)"      "
1080 LOCATE 12,70:PRINT A3$(K)"      "
1090 LOCATE 14,70:PRINT A4$(K)"      "
1100 LOCATE 16,70:PRINT A5$(K)"      "
1110 LOCATE 18,70:PRINT A6$(K)"      "
1120 LOCATE 20,70:PRINT A7$(K)"      "
1130 LOCATE 22,70:PRINT A8$(K)"      "
1140 REM
1150 RETURN
1160 REM THIS IS THE START OF THE NEW DATA INPUT......
1170 REM
1180 REM    THIS IS THE YES/NO RESPONSE SECTION.......
1190 REM
1200 REM  THIS IS THE START OF INPUT #1
1210 A1T$(K)=A1$(K)
1220 LOCATE 8,68:INPUT;"> ",A1$(K)
1230 IF A1$(K) = "N" GOTO 1280
 240 IF A1$(K) = "Y" GOTO 1280
.250 IF A1$(K) = "" GOTO 1270
1260 BEEP:GOTO 1200
1270 A1$(K) = A1T$(K)
1280 RETURN
1290 REM
1300 REM  THIS IS THE START OF INPUT #2
1310 A2T$(K)=A2$(K)
1320 LOCATE 10,68:INPUT;"> ",A2$(K)
1330 IF A2$(K) = "Y" GOTO 1380
1340 IF A2$(K) = "N" GOTO 1380
1350 IF A2$(K) = "" GOTO 1370
1360 BEEP:GOTO 1320
1370 A2$(K)=A2T$(K)
1380 RETURN
1390 REM
1400 REM  THIS IS THE START OF INPUT #3
1410 A3T$(K)=A3$(K)
1420 LOCATE 12,68:INPUT;"> ",A3$(K)
1430 IF A3$(K) = "Y" GOTO 1480
1440 IF A3$(K) = "N" GOTO 1480
1450 IF A3$(K) = "" GOTO 1470
1460 BEEP:GOTO 1420
1470 A3$(K)=A3T$(K)
1480 RETURN
 490 REM
```

```
500 REM  THIS IS THE START OF INPUT #4
510 A4T$(K)=A4$(K)
520 LOCATE 14,68:INPUT;"> ",A4$(K)
530 IF A4$(K) = "Y" GOTO 1580
540 IF A4$(K) = "N" GOTO 1580
550 IF A4$(K) = "" GOTO 1570
560 BEEP:GOTO 1520
570 A4$(K)=A4T$(K)
580 RETURN
590 REM
600 REM  THIS IS THE START OF INPUT #5
610 A5T$(K)=A5$(K)
620 LOCATE 16,68:INPUT;"> ",A5$(K)
630 IF A5$(K) = "Y" GOTO 1680
640 IF A5$(K) = "N" GOTO 1680
650 IF A5$(K) = "" GOTO 1670
660 BEEP:GOTO 1620
670 A5$(K)=A5T$(K)
680 RETURN
690 REM  THIS IS THE START OF INPUT #6
700 A6T$(K)=A6$(K)
710 LOCATE 18,68:INPUT;"> ",A6$(K)
720 IF A6$(K) = "Y" GOTO 1770
730 IF A6$(K) = "N" GOTO 1770
 40 IF A6$(K) = "" GOTO 1760
750 BEEP:GOTO 1710
760 A6$(K)=A6T$(K)
770 RETURN
780 REM
790 REM  THIS IS THE START OF INPUT #7
800 A7T$(K)=A7$(K)
810 LOCATE 20,68:INPUT;"> ",A7$(K)
820 IF A7$(K) = "Y" GOTO 1870
830 IF A7$(K) = "N" GOTO 1870
840 IF A7$(K) = "" GOTO 1860
850 BEEP:GOTO 1810
860 A7$(K)=A7T$(K)
870 RETURN
880 REM
890 REM  THIS IS THE START OF INPUT #8
900 A8T$(K)=A8$(K)
910 LOCATE 22,68:INPUT;"> ",A8$(K)
920 IF A8$(K) = "Y" GOTO 1970
930 IF A8$(K) = "N" GOTO 1970
940 IF A8$(K) = "" GOTO 1960
950 BEEP:GOTO 1910
960 A8$(K)=A8T$(K)
970 RETURN
980 REM
 70 REM THIS IS THE START OF INPUT #1
```

```
2000 A1T$(K)=A1$(K)
2010 LOCATE 8,68:INPUT;"> ",A1$(K)
2020 IF A1$(K)="" GOTO 2040
2030 GOTO 2050
2040 A1$(K)=A1T$(K)
2050 RETURN
2060 REM
2070 REM THIS IS THE START OF INPUT #2
2080 A2T$(K)=A2$(K)
2090 LOCATE 10,68:INPUT;"> ",A2$(K)
2100 IF A2$(K)="" GOTO 2120
2110 GOTO 2130
2120 A2$(K)=A2T$(K)
2130 RETURN
2140 REM
2150 REM THIS IS THE START OF INPUT #3
2160 A3T$(K)=A3$(K)
2170 LOCATE 12,68:INPUT;"> ",A3$(K)
2180 IF A3$(K)="" GOTO 2200
2190 GOTO 2210
2200 A3$(K)=A3T$(K)
2210 RETURN
2220 REM THIS IS THE START OF INPUT #4
2230 A4T$(K)=A4$(K)
2240 LOCATE 14,68:INPUT;"> ",A4$(K)
2250 IF A4$(K)="" GOTO 2270
2260 GOTO 2280
2270 A4$(K)=A4T$(K)
2280 RETURN
2290 REM
2300 REM THIS IS THE START OF INPUT #5
2310 A5T$(K)=A5$(K)
2320 LOCATE 16,68:INPUT;"> ",A5$(K)
2330 IF A5$(K)="" GOTO 2350
2340 GOTO 2360
2350 A5$(K)=A5T$(K)
2360 RETURN
2370 REM
2380 REM THIS IS THE START OF INPUT #6
2390 A6T$(K)=A6$(K)
2400 LOCATE 18,68:INPUT;"> ",A6$(K)
2410 IF A6$(K)="" GOTO 2430
2420 GOTO 2440
2430 A6$(K)=A6T$(K)
2440 RETURN
2450 REM
2460 REM THIS IS THE START OF INPUT #7
2470 A7T$(K)=A7$(K)
2480 LOCATE 20,68:INPUT;"> ",A7$(K)
2490 IF A7$(K)="" GOTO 2510
```

```
2500 GOTO 2520
2510 A7$(K)=A7T$(K)
2520 RETURN
2530 REM
2540 REM THIS IS THE START OF INPUT #8
2550 A8T$(K)=A8$(K)
2560 LOCATE 22,68:INPUT;"> ",A8$(K)
2570 IF A8$(K)="" GOTO 2590
2580 GOTO 2600
2590 A8$(K)=A8T$(K)
2600 RETURN
2610 REM
2620 LOCATE 25,25
2630 PRINT "PRESS ANY KEY TO RETURN TO SCREEN."
2640 A$=INKEY$: IF A$="" THEN GOTO 2640 ELSE GOTO 2650
2650 RETURN
2660 REM
2670 REM THIS IS THE HELP SUBROUTINE
2680 LOCATE 6,10:COLOR 0,7
2690 PRINT "     FOR SPECIFIC HELP TYPE QUESTION NO. OR N FOR NO HELP      "
2700 COLOR 7,0:BEEP
2710 A$=INKEY$: IF A$="" THEN GOTO 2710 ELSE GOTO 2720
2720 IF A$="N" THEN GOTO 2742
2730 HP = VAL(A$)
2740 IF (HP>0) AND (HP<9) THEN GOTO 7480 ELSE GOTO 2680
2742 LOCATE 6,10
2744 PRINT ">>>>  TYPE IN TOTAL CHANGE  YOU ONLY GET WHAT IS TYPED  <<<<    "
2746 COLOR 7,0
2750 RETURN
2760 REM
2770 REM THIS IS THE SCREEN REVIEW CHECK & DATA TO FILE.....
2780 LOCATE 24,25
2790 COLOR 0,7:PRINT "   IS DATA INPUT CORRECT? (Y/N)    ":COLOR 7,0
2800 COLOR 7,0:B$=INKEY$:IF B$="" THEN GOTO 2800 ELSE GOTO 2810
2810 IF B$="Y" THEN GOTO 2840 ELSE GOTO 2820
2820 IF B$="N" THEN GOTO 2840 ELSE GOTO 2830
2830 GOTO 2790
2840 RETURN
2850 REM   THIS IS THE BEGINNING OF SCREEN #2.....
2860 REM   THIS IS THE SCREEN BORDER SUBROUTINE.
2870 LOCATE 1,5
2880 PRINT " ------------------------- SCREEN" K "-------------------------
   "
2890 LOCATE 2,5
2900 PRINT "|
  |"
2910 LOCATE 4,5
2920 PRINT "|-----------------------------------------------------------------
-|"
2930 RETURN
2940 REM  THIS IS THE START OF SCREEN 2
2950 REM
2960 K = 2:HP=0:NOM=0
2970 CLS
2980 GOSUB 2860
2990 LOCATE 3,5
```

```
3000 PRINT "|                    PLEASE ANSWER THE FOLLOWING QUESTIONS
 |"
3010 LOCATE  8, 5
3020 PRINT "1. WILL YOU CONDUCT A PRICE ANALYSIS (Y/N)?"
3030  LOCATE  8,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3040 LOCATE 10, 5
3050 PRINT "2. WILL THIS BE A LEVEL I ANALYSIS (Y/N)?"
3060  LOCATE 10,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3070 LOCATE 12, 5
3080 PRINT "3. WHAT WILL BE THE AVERAGE GRADE OF THE ANALYSTS ?"
3090 LOCATE 12,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3100 LOCATE 14, 5
3110 PRINT "4. HOW MANY SOURCE APPROVALS WILL BE REQUIRED ?"
3120 LOCATE 14,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3130 LOCATE 16, 5
3140 PRINT "5. HOW MANY PLANT VISITS FOR THIS SOURCE APP.? "
3150 LOCATE 16,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3160 LOCATE 18, 5
3170 PRINT "6. HOW MANY AF PERSONNEL WILL MAKE THESE VISITS?"
3180 LOCATE 18,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3190 LOCATE 20, 5
3200 PRINT "7. WHAT IS THE AVERAGE GRADE OF THESE VISITORS?"
3210 LOCATE 20,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3220 LOCATE 22, 5
3230 PRINT "8. IS THIS A SOLE SOURCE PROCUREMENT? (Y/N)"
3240 LOCATE 22,70:COLOR 0,7:PRINT "     ":COLOR 7,0
3250 GOSUB 2660
3260 IF NOLD$ = "N" THEN GOTO 3270 ELSE GOTO 3280
3270 GOSUB 1020
3280 GOSUB 1200
3290 GOSUB 1300
3300 GOSUB 2150
3310 GOSUB 2220
3320 GOSUB 2300
3330 GOSUB 2380
3340 GOSUB 2460
3350 GOSUB 1890
3360 GOSUB 2760
3370 IF B$="N" GOTO 2940
3380 PRINT #1,A1$(K)
3390 PRINT #1,A2$(K)
3400 PRINT #1,A3$(K)
3410 PRINT #1,A4$(K)
3420 PRINT #1,A5$(K)
3430 PRINT #1,A6$(K)
3440 PRINT #1,A7$(K)
3450 PRINT #1,A8$(K)
3460 GOTO 3470
3470 REM  THIS IS THE START OF SCREEN 3
3480 REM
3490 REM
```

```
3500 K = 3:HP=0:NOM=0
3510 CLS
3520 GOSUB 2860
3530 LOCATE 3,5
3540 PRINT "|                    PLEASE ANSWER THE FOLLOWING QUESTIONS
  |"
3550 LOCATE  8, 5
3560 PRINT "1. WILL REVERSE ENGINEERING BE ATTEMPTED? (Y/N)"
3570  LOCATE  8,70:COLOR 0,7:PRINT "      ":COLOR 7,0
3580 LOCATE 10, 5
3590 PRINT "2. WILL IT BE A LEVEL I EFFORT? (Y/N)"
3600  LOCATE 10,70:COLOR 0,7:PRINT "      ":COLOR 7,0
3610 LOCATE 12, 5
3620 PRINT "3. THE AVERAGE GRADE OF THESE ENGINEERS WILL BE ..."
3630 LOCATE 12,70:COLOR 0,7:PRINT "      ":COLOR 7,0
3640 LOCATE 14, 5
3650 PRINT "4. WILL A PRE-AWARD SURVEY BE CONDUCTED? (Y/N)"
3660 LOCATE 14,70:COLOR 0,7:PRINT "      ":COLOR 7,0
3670 LOCATE 16, 5
3680 PRINT "5. WILL THIS SURVEY REQUIRE ON-SITE VISITS? (Y/N)"
3690 LOCATE 16,70:COLOR 0,7:PRINT "      ":COLOR 7,0
3700 LOCATE 18, 5
3710 PRINT "6. HOW MANY VISITS WILL BE REQUIRED?"
3720 LOCATE 18,70:COLOR 0,7:PRINT "      ":COLOR 7,0
 3730 LOCATE 20, 5
3740 PRINT "7. HOW MANY PERSONNEL ON THE AF VISIT TEAM?"
3750 LOCATE 20,70:COLOR 0,7:PRINT "      ":COLOR 7,0
3760 LOCATE 22, 5
3770 PRINT "8. WHAT IS THE AVERAGE GS GRADE OF THIS TEAM?"
3780 LOCATE 22,70:COLOR 0,7:PRINT "      ":COLOR 7,0
3790 GOSUB 2660
3800 IF NOLD$ = "N" THEN GOTO 3810 ELSE GOTO 3820
3810 GOSUB 1020
3820 GOSUB 1200
3830 GOSUB 1300
3840 GOSUB 2150
3850 GOSUB 1500
3860 GOSUB 1600
3870 GOSUB 2380
3880 GOSUB 2460
3890 GOSUB 2540
3900 GOSUB 2760
3910 IF B$="N" GOTO 3470
3920 PRINT #1,A1$(K)
3930 PRINT #1,A2$(K)
3940 PRINT #1,A3$(K)
3950 PRINT #1,A4$(K)
3960 PRINT #1,A5$(K)
3970 PRINT #1,A6$(K)
 3980 PRINT #1,A7$(K)
3990 PRINT #1,A8$(K)
```

```
000 GOTO 4010
010 REM  THIS IS THE START OF SCREEN 4
020 REM
030 REM
040 K = 4:HP=0:NOM=0
050 CLS
060 GOSUB 2860
070 LOCATE 3,5
080 PRINT "|                    PLEASE ANSWER THE FOLLOWING QUESTIONS
|"
090 LOCATE  8, 5
100 PRINT "1. IS THIS ANALYSIS FOR MORE THAN ONE ITEM? (Y/N)"
110  LOCATE  8,70:COLOR 0,7:PRINT "      ":COLOR 7,0
120 LOCATE 10, 5
130 PRINT "2. HOW MANY CLASS 1 (8.5 BY 11) DRAWINGS IN THE PACKAGE?"
140  LOCATE 10,70:COLOR 0,7:PRINT "      ":COLOR 7,0
150 LOCATE 12, 5
160 PRINT "3. WHAT IS THE WEIGHT OF THE ITEM(S)?"
170 LOCATE 12,70:COLOR 0,7:PRINT "      ":COLOR 7,0
180 LOCATE 14, 5
190 PRINT "4. WHAT IS THE TOTAL SPO BUDGET?"
200 LOCATE 14,70:COLOR 0,7:PRINT "      ":COLOR 7,0
210 LOCATE 16, 5
220 PRINT "5. HOW MANY MONTHS ARE AVAILABLE TO SPEND THIS BUDGET?"
 30 LOCATE 16,70:COLOR 0,7:PRINT "      ":COLOR 7,0
240 LOCATE 18, 5
250 PRINT "6. WILL THERE BE A FIRST ARTICLE QUALIFICATION? (Y/N)?"
260 LOCATE 18,70:COLOR 0,7:PRINT "      ":COLOR 7,0
270 LOCATE 20, 5
280 PRINT "7. HOW MANY AF PERSONNEL WILL BE INVOLVED IN THIS QUALIFICATION?"
290 LOCATE 20,70:COLOR 0,7:PRINT "      ":COLOR 7,0
300 LOCATE 22, 5
310 PRINT "8. WHAT WILL BE THE GS GRADE OF THIS TEAM?"
320 LOCATE 22,70:COLOR 0,7:PRINT "      ":COLOR 7,0
330 GOSUB 2660
340 IF NOLD$ = "N" THEN GOTO 4350 ELSE GOTO 4360
350 GOSUB 1020
360 GOSUB 1200
370 GOSUB 2070
380 GOSUB 2150
390 GOSUB 2220
400 GOSUB 2300
410 GOSUB 1690
420 GOSUB 2460
430 GOSUB 2540
440 GOSUB 2760
450 IF B$="N" GOTO 4010
460 PRINT #1,A1$(K)
470 PRINT #1,A2$(K)
 30 PRINT #1,A3$(K)
490 PRINT #1,A4$(K)
```

```
4500 PRINT #1,A5$(K)
4510 PRINT #1,A6$(K)
4520 PRINT #1,A7$(K)
4530 PRINT #1,A8$(K)
4540 GOTO 4550
4550 REM THIS IS THE START OF SCREEN 5
4560 REM
4570 K = 5:HP=0:NOM=0
4580 CLS
4590 GOSUB 2860
4600 LOCATE 3,5
4610 PRINT "|                    PLEASE ANSWER THE FOLLOWING QUESTIONS
 |"
4620 LOCATE  8, 5
4630 PRINT "1. WILL THE NEW CONTRACTOR REQUIRE EEO SUPPORT? (Y/N)"
4640  LOCATE  8,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4650 LOCATE 10, 5
4660 PRINT "2. WILL HE REQUIRE SOCIO-ECONOMIC SUPPORT? (Y/N)"
4670  LOCATE 10,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4680 LOCATE 12, 5
4690 PRINT "3. WHAT WILL WARRANTEES COST? "
4700 LOCATE 12,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4710 LOCATE 14, 5
4720 PRINT "4. WHAT WILL BE THE PARTIAL TERMINATION COST TO THE AF ?"
  30 LOCATE 14,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4740 LOCATE 16, 5
4750 PRINT "5. HOW MANY MILES FROM THE NEW SOURCE TO THE PRIME? (MILES)"
4760 LOCATE 16,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4770 LOCATE 18, 5
4780 PRINT "6. HOW MANY TECHNICAL REVIEWS WILL BE REQUIRED?"
4790 LOCATE 18,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4800 LOCATE 20, 5
4810 PRINT "7. WHAT IS THE COST OF NEW EQUIPMENT/TOOLS?"
4820 LOCATE 20,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4830 LOCATE 22, 5
4840 PRINT "8. WHAT IS THE COST OF FACILITY MODIFICATIONS?"
4850 LOCATE 22,70:COLOR 0,7:PRINT "      ":COLOR 7,0
4860 GOSUB 2660
4870 IF NOLD$ = "N" THEN GOTO 4880 ELSE GOTO 4890
4880 GOSUB 1020
4890 GOSUB 1200
4900 GOSUB 1300
4910 GOSUB 2150
4920 GOSUB 2220
4930 GOSUB 2300
4940 GOSUB 2380
4950 GOSUB 2460
4960 GOSUB 2540
4970 GOSUB 2760
  30 IF B$="N" GOTO 4550
4990 PRINT #1,A1$(K)
```

```
5000 PRINT #1,A2$(K)
5010 PRINT #1,A3$(K)
5020 PRINT #1,A4$(K)
5030 PRINT #1,A5$(K)
5040 PRINT #1,A6$(K)
5050 PRINT #1,A7$(K)
5060 PRINT #1,A8$(K)
5070 GOTO 5080
5080 REM  THIS IS THE START OF SCREEN 6
5090 REM
5100 REM
5110 K = 6:HP=0:NOM=0
5120 CLS
5130 GOSUB 2860
5140 LOCATE 3,5
5150 PRINT "!                    PLEASE ANSWER THE FOLLOWING QUESTIONS
 !"
5160 LOCATE  8, 5
5170 PRINT "1. WHAT IS THE AVE. GRADE OF THE CONTRACTING TEAM?"
5180  LOCATE  8,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5190 LOCATE 10, 5
5200 PRINT "2. HOW MANY SOURCES WILL BE DEVELOPED?"
5210  LOCATE 10,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5220 LOCATE 12, 5
5230 PRINT "3. HOW MANY PLANT VISITS FOR SOURCE DEVELOPMENT?"
5240 LOCATE 12,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5250 LOCATE 14, 5
5260 PRINT "4. HOW MANY AF VISITORS ON EACH TRIP?"
5270 LOCATE 14,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5280 LOCATE 16, 5
5290 PRINT "5. WHAT WILL BE THEIR AVERAGE GRADE?"
5300 LOCATE 16,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5310 LOCATE 18, 5
5320 PRINT "6. HOW MANY EMPLOYEES AT THE NEW CONTRACTOR'S FACILITY?"
5330 LOCATE 18,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5340 LOCATE 20, 5
5350 PRINT "7. WHAT IS THE HIGHEST CLASSIFICATION OF CBO ITEMS?"
5360 LOCATE 20,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5370 LOCATE 22, 5
5380 PRINT "8. THE NO. OF NEW CONTRACTOR PERS. REQUIRING CLEARANCES IS..."
5390 LOCATE 22,70:COLOR 0,7:PRINT "      ":COLOR 7,0
5400 GOSUB 2660
5410 IF NOLD$ = "N" THEN GOTO 5420 ELSE GOTO 5430
5420 GOSUB 1020
5430 GOSUB 1990
5440 GOSUB 2070
5450 GOSUB 2150
5460 GOSUB 2220
5470 GOSUB 2300
5480 GOSUB 2380
5490 GOSUB 2460
```

```
5500 GOSUB 2540
5510 GOSUB 2760
5520 IF B$="N" GOTO 5080
5530 PRINT #1,A1$(K)
5540 PRINT #1,A2$(K)
5550 PRINT #1,A3$(K)
5560 PRINT #1,A4$(K)
5570 PRINT #1,A5$(K)
5580 PRINT #1,A6$(K)
5590 PRINT #1,A7$(K)
5600 PRINT #1,A8$(K)
5610 GOTO 5620
5620 REM  THIS IS THE START OF SCREEN 7
5630 REM
5640 K = 7:HP=0:NOM=0
5650 CLS
5660 GOSUB 2860
5670 LOCATE 3,5
5680 PRINT "!                    PLEASE ANSWER THE FOLLOWING QUESTIONS
 !"
5690 LOCATE  8, 5
5700 PRINT "1. HOW MANY PROPOSALS IN SOURCE SELECTION?"
5710  LOCATE  8,70:COLOR 0,7:PRINT "     ":COLOR 7,0
5720 LOCATE 10, 5
5730 PRINT "2. HOW MANY AF PEOPLE IN THE SOURCE SELECTION?"
5740  LOCATE 10,70:COLOR 0,7:PRINT "     ":COLOR 7,0
5750 LOCATE 12, 5
5760 PRINT "3. WHAT IS THEIR AVERAGE GRADE?"
5770 LOCATE 12,70:COLOR 0,7:PRINT "     "
5780 LOCATE 14, 5
5790 PRINT "4. MONTHS OF SPO CBO MGT RESPONSIBILITY IS...."
5800 LOCATE 14,70:COLOR 0,7:PRINT "     ":COLOR 7,0
5810 LOCATE 16, 5
5820 PRINT "5. AVE. HRS. PER WEEK IN GEN. CBO MANAGEMENT IS..."
5830 LOCATE 16,70:COLOR 0,7:PRINT "     ":COLOR 7,0
5840 LOCATE 18, 5
5850 PRINT "6. AVE. GRADE OF THE SPO CBO MANAGEMENT TEAM IS..."
5860 LOCATE 18,70:COLOR 0,7:PRINT "     ":COLOR 7,0
5870 LOCATE 20, 5
5880 PRINT "7. HOW MANY SOLICITATIONS WILL BE SENT OUT?   "
5890 LOCATE 20,70:COLOR 0,7:PRINT "     ":COLOR 7,0
5900 LOCATE 22, 5
5910 PRINT "8. WHAT IS THE AVERAGE NUMBER OF SPO PERSONNEL?"
5920 LOCATE 22,70:COLOR 0,7:PRINT "     ":COLOR 7,0
5930 GOSUB 2660
5940 IF NOLD$ = "N" THEN GOTO 5950 ELSE GOTO 5960
5950 GOSUB 1020
5960 GOSUB 1990
5970 GOSUB 2070
5980 GOSUB 2150
5990 GOSUB 2220
```

```
 )00 GOSUB 2300
6010 GOSUB 2380
6020 GOSUB 2460
6030 GOSUB 2540
6040 GOSUB 2760
6050 IF B$="N" GOTO 5620
6060 PRINT #1,A1$(K)
6070 PRINT #1,A2$(K)
6080 PRINT #1,A3$(K)
6090 PRINT #1,A4$(K)
6100 PRINT #1,A5$(K)
6110 PRINT #1,A6$(K)
6120 PRINT #1,A7$(K)
6130 PRINT #1,A8$(K)
6140 GOTO 7190
6150 REM  THIS IS THE START OF SCREEN 8
6160 REM
6170 K = 8:HP=0:NOM=0
6180 CLS
6190 GOSUB 2860
6200 LOCATE 3,5
6210 PRINT "!                    PLEASE ANSWER THE FOLLOWING QUESTIONS
 !"
6220 LOCATE  8, 5
6230 PRINT "1. 888888888888888ALS IN SOURCE SELECTION?"
 240  LOCATE  8,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6250 LOCATE 10, 5
6260 PRINT "2. HOW MANY AF PEOPLE IN THE SOURCE SELECTION?"
6270  LOCATE 10,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6280 LOCATE 12, 5
6290 PRINT "3. WHAT IS THEIR AVERAGE GRADE?"
6300 LOCATE 12,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6310 LOCATE 14, 5
6320 PRINT "4. MONTHS OF SPO CBO MGT RESPONSIBILITY IS...."
6330 LOCATE 14,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6340 LOCATE 16, 5
6350 PRINT "5. AVE. HRS. PER WEEK IN GEN. CBO MANAGEMENT IS..."
6360 LOCATE 16,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6370 LOCATE 18, 5
6380 PRINT "6. AVE. GRADE OF THE SPO CBO MANAGEMENT TEAM IS..."
6390 LOCATE 18,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6400 LOCATE 20, 5
6410 PRINT "7. A GOOD ONE.................                    "
6420 LOCATE 20,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6430 LOCATE 22, 5
6440 PRINT "8. ANOTHER GOOD ONE.............                   "
6450 LOCATE 22,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6460 GOSUB 2660
6470 IF NOLD$ = "N" THEN GOTO 6480 ELSE GOTO 6490
6480 GOSUB 1020
 490 GOSUB 1990
```

```
6500 GOSUB 2070
  10 GOSUB 2150
6520 GOSUB 2220
6530 GOSUB 2300
6540 GOSUB 2380
6550 GOSUB 2460
6560 GOSUB 2540
6570 GOSUB 2760
6580 IF B$="N" GOTO 6150
6590 PRINT #1,A1$(K)
6600 PRINT #1,A2$(K)
6610 PRINT #1,A3$(K)
6620 PRINT #1,A4$(K)
6630 PRINT #1,A5$(K)
6640 PRINT #1,A6$(K)
6650 PRINT #1,A7$(K)
6660 PRINT #1,A8$(K)
6670 REM  THIS IS THE START OF SCREEN 9
6680 REM
6690 K = 9:HP=0:NOM=0
6700 CLS
6710 GOSUB 2860
6720 LOCATE 3,5
6730 PRINT "|                    PLEASE ANSWER THE FOLLOWING QUESTIONS
  |"
6740 LOCATE  8, 5
  50 PRINT "1. 99999999999999SALS IN SOURCE SELECTION?"
6760  LOCATE  8,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6770 LOCATE 10, 5
6780 PRINT "2. HOW MANY AF PEOPLE IN THE SOURCE SELECTION?"
6790  LOCATE 10,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6800 LOCATE 12, 5
6810 PRINT "3. WHAT IS THEIR AVERAGE GRADE?"
6820 LOCATE 12,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6830 LOCATE 14, 5
6840 PRINT "4. MONTHS OF SPO CBO MGT RESPONSIBILITY IS...."
6850 LOCATE 14,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6860 LOCATE 16, 5
6870 PRINT "5. AVE. HRS. PER WEEK IN GEN. CBO MANAGEMENT IS..."
6880 LOCATE 16,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6890 LOCATE 18, 5
6900 PRINT "6. AVE. GRADE OF THE SPO CBO MANAGEMENT TEAM IS..."
6910 LOCATE 18,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6920 LOCATE 20, 5
6930 PRINT "7. A GOOD ONE.....                                  "
6940 LOCATE 20,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6950 LOCATE 22, 5
6960 PRINT "8. ANOTHER GOOD ONE.....                            "
6970 LOCATE 22,70:COLOR 0,7:PRINT "      ":COLOR 7,0
6980 GOSUB 2660
6990 IF NOLD$ = "N" THEN GOTO 7000 ELSE GOTO 7010
```

```
7000 GOSUB 1020
7010 GOSUB 1990
7020 GOSUB 2070
7030 GOSUB 2150
7040 GOSUB 2220
7050 GOSUB 2300
7060 GOSUB 2380
7070 GOSUB 2460
7080 GOSUB 2540
7090 GOSUB 2760
7100 IF B$="N" GOTO 6670
7110 PRINT #1,A1$(K)
7120 PRINT #1,A2$(K)
7130 PRINT #1,A3$(K)
7140 PRINT #1,A4$(K)
7150 PRINT #1,A5$(K)
7160 PRINT #1,A6$(K)
7170 PRINT #1,A7$(K)
7180 PRINT #1,A8$(K)
7190 CLOSE #1
7200 REM  THIS IS THE MODEL DATA INPUT CHECK SECTION
7210 CLS
7220 REM
7230 LOCATE 10,10
7240 PRINT "**********************************************************************
7250 LOCATE 11,10
7260 PRINT "*                                                                    *
7270 LOCATE 12,10
7280 PRINT "*           DO YOU WISH TO VIEW THE DATA INPUT? (Y/N)                 *
7290 LOCATE 13,10
7300 PRINT "*                                                                    *
7310 LOCATE 14,10
7320 PRINT "**********************************************************************
7330 LOCATE 17,20
7340 PRINT "NOTE:::: Y MEANS YES"
7350 LOCATE 19,20
7360 PRINT "          N MEANS NO"
7370 LOCATE 12,68:PRINT "> "
7380 E$=INKEY$:IF E$="" THEN GOTO 7380 ELSE GOTO 7390
7390 IF E$="Y" THEN GOTO 7420 ELSE GOTO 7400
7400 IF E$="N" THEN GOTO 7450 ELSE GOTO 7410
7410 GOTO 7370
7420 CLS:LOCATE 15,25
7430 PRINT "THE INPUT DATA MODEL IS LOADING"
7440 RUN  "DATINY"
7450 CLS:LOCATE 15,25
7460 PRINT "THE CALCULATION MODEL IS LOADING"
7470 RUN  "CALCUY"
7480 REM THIS IS THE HELP SECTION.............
7490 REM
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 ) CLS
10 NOM = (K - 1)*8 + HP
20 IF K=1 GOTO 7590
30 IF K=2 GOTO 7600
40 IF K=3 GOTO 7610
50 IF K=4 GOTO 7620
60 IF K=5 GOTO 7630
70 IF K=6 GOTO 7640
80 IF K=7 GOTO 7650
90 ON HP GOTO 7700,7800,7940,8010,8090,8170,8270,8350
00 ON HP GOTO 8450,8560,8690,8770,8860,8910,8970,9050
10 ON HP GOTO 9100,9210,9340,9410,9530,9580,9630,9680
20 ON HP GOTO 9760,9830,9890,9950,10030,10090,10170,10230
30 ON HP GOTO 10310,10390,10470,10570,10650,10730,10810,10900
40 ON HP GOTO 10980,11070,11180,11230,11290,11360,11420,11510
50 ON HP GOTO 11590,11650,11710,11770,11850,11930,12000,12110
60 LOCATE 24,20:PRINT "PRESS ANY KEY TO CONTINUE."
70 A$=INKEY$: IF A$="" THEN 7670 ELSE GOTO 7680
80 RETURN
90 REM
00 REM        THIS IS THE HELP FOR QUESTION 1 ON SCREEN 1
10 CLS:LOCATE 2,5:PRINT "QUESTION 1,SCREEN 1"
20 LOCATE 4,5:PRINT "HOW MANY AF PERSONNEL CONDUCTED SCREENING?"
30 LOCATE 7,10:PRINT "THIS IS THE NUMBER OF GOVERNMENT PERSONNEL THAT "
40 LOCATE 9,10:PRINT "PARTICIPATED IN THE SCREENING OF THE POTENTIAL "
 0 LOCATE 11,10:PRINT "ITEMS FOR COMPONENT BREAKOUT.  NORMALLY THIS GROUP "
60 LOCATE 13,10:PRINT "WOULD INCLUDE ENGINEERS, PROGRAM MANAGERS, CONTRACTING

70 LOCATE 15,10:PRINT "PERSONNEL, AND OTHERS FROM THE SPO CADRE."
80 GOSUB 2620:CLS:GOTO 430
90 CLS:GOTO 7970
00 REM        THIS IS THE HELP FOR QUESTION 2 ON SCREEN 1
10 CLS
20 CLS:LOCATE 2,5:PRINT "QUESTION 2,SCREEN 1"
30 LOCATE 4,5:PRINT "WHAT IS THEIR AVERAGE GRADE?"
40 LOCATE 7,10:PRINT "TO DETERMINE THIS FIGURE CALCULATE THE AVERAGE SCREENIN

50 LOCATE 9,10:PRINT "TEAM GRADE BY ADDING THE GRADES OF THE PARTICIPANTS"
60 LOCATE 11,10:PRINT "AND DIVIDE BY THE NUMBER OF PARTICIPANTS AND THEN"
70 LOCATE 13,10:PRINT "SELECT THE NEAREST WHOLE NUMBER.  THE PROGRAM"
80 LOCATE 15,10:PRINT "WILL ACCEPT ANY WHOLE NUMBER FROM 7 TO 15. "
90 LOCATE 17,15: PRINT "2LT = GS9      1LT = GS11      CAPT = GS12"
00 LOCATE 19,15: PRINT "MAJ = GS13   LCOL = GS14       COL = GS15"
10 LOCATE 21,10:PRINT "    >>>CAUTION<<<          ENTER ONLY NUMBERS FROM    "
20 LOCATE 23,10:PRINT "                                        7 TO 15"
30 GOSUB 2620:CLS:GOTO 430
40 REM        THIS IS THE HELP FOR QUESTION 3 ON SCREEN 1
50 CLS
60 CLS:LOCATE 2,5:PRINT "QUESTION 3,SCREEN 1"
70 LOCATE 4,5:PRINT "HOW MANY WEEKS DID THE SCREENING REQUIRE?"
 0 LOCATE 7,10:PRINT "THIS IS THE TOTAL TIME IN WEEKS OF THE SCREENING "
70 LOCATE 9,10:PRINT "FROM THE START TO THE FINISH."
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00 GOSUB 2620:CLS:GOTO 430
10 REM       THIS IS THE HELP FOR QUESTION 4 ON SCREEN 1
20 CLS
30 CLS:LOCATE 2,5:PRINT "QUESTION 4,SCREEN 1"
40 LOCATE 4,5:PRINT "SCREENING REQUIRED WHAT PERCENT OF THEIR TIME?"
50 LOCATE 7,10:PRINT "THIS IS AN ESTIMATE OF THE PERCENTAGE OF THE TIME"
60 LOCATE 9,10:PRINT "DEVOTED TO SCREENING BY THE TEAM MEMBERS."
70 LOCATE 11,10:PRINT "DATA ENTRY EXAMPLE.....FOR 30 PERCENT ENTER 30"
80 GOSUB 2620:CLS:GOTO 430
90 REM       THIS IS THE HELP FOR QUESTION 5 ON SCREEN 1
00 CLS
10 CLS:LOCATE 2,5:PRINT "QUESTION 5,SCREEN 1"
20 LOCATE 4,5:PRINT "WHAT WAS THE PRIME'S PRICE FOR THE CBO ITEMS?"
30 LOCATE 7,10:PRINT "THIS IS THE TOTAL OF THE PRIME PRICES OF THE CBO"
40 LOCATE 9,10:PRINT "ITEMS IDENTIFIED BY THE SCREENING TEAM. "
50 LOCATE 11,10:PRINT "FOR EXAMPLE....ENTER 1000000 FOR ONE MILLION."
60 GOSUB 2620:CLS:GOTO 430
70 REM       THIS IS THE HELP FOR QUESTION 6 ON SCREEN 1
80 CLS
90 CLS:LOCATE 2,5:PRINT "QUESTION 6,SCREEN 1"
00 LOCATE 4,5:PRINT "WHAT IS THE NEW CONTRACTOR'S PRICE FOR THE ITEMS?"
10 LOCATE 7,10:PRINT "THIS IS THE ANTICIPATED OR KNOWN PRICE OF THE CBO"
20 LOCATE 9,10:PRINT "ITEMS IDENTIFIED FOR THE BREAKOUT.  INCLUDE ALL OF"
30 LOCATE 11,10:PRINT "OF THE ITEMS IN THE QUANTITIES ORDERED."
 0 LOCATE 13,10:PRINT "THIS COST WILL BE COMPARED TO THE PRIME COST"
50 LOCATE 15,10:PRINT "THAT WAS CALLED FOR ABOVE."
60 GOSUB 2620:CLS:GOTO 430
70 REM       THIS IS THE HELP FOR QUESTION 7 ON SCREEN 1
80 CLS
90 CLS:LOCATE 2,5:PRINT "QUESTION 7,SCREEN 1"
00 LOCATE 4,5:PRINT "WHAT IS THE INFLATION RATE?"
10 LOCATE 7,10:PRINT "THIS IS THE RATE OF INFLATION SINCE JANUARY 1987."
20 LOCATE 9,10:PRINT "EXAMPLE....IF THE INFLATION RATE IS 5 PERCENT THEN"
30 LOCATE 11,10:PRINT ".....ENTER 5"
40 GOSUB 2620:CLS:GOTO 430
50 REM       THIS IS THE HELP FOR QUESTION 8 ON SCREEN 1
60 CLS
70 CLS:LOCATE 2,5:PRINT "QUESTION 8,SCREEN 1"
80 LOCATE 4,5:PRINT "WHAT IS THE ...... BENEFIT RATE?"
90 LOCATE 7,10:PRINT "THIS IS THE RATE ADDED TO SALARY INFORMATION IN "
00 LOCATE 9,10:PRINT "ORDER TO COMPUTE TOTAL COSTS OF PERSONNEL.  THE ASD RATE

10 LOCATE 11,10:PRINT "IS CURRENTLY AT 27.3 PERCENT.  UNLESS YOU HAVE NEWER"
20 LOCATE 13,10:PRINT "INFORMATION THEN WE RECOMMEND THAT YOU ENTER 27.3  "
30 LOCATE 15,10:PRINT "AS THE FRINGE BENEFIT RATE."
40 GOSUB 2620:CLS:GOTO 430
50 REM
60 CLS:LOCATE 2,5:PRINT "QUESTION 1,SCREEN 2"
70 LOCATE 4,5:PRINT "WILL YOU CONDUCT A PRICE ANALYSIS? (Y/N)"
90 LOCATE 7,10:PRINT "A PRICE ANALYSIS IS USED TO DEVELOP VALIDATED PRICES"
70 LOCATE 9,10:PRINT "FOR ITEMS WHICH WILL BE PURCHASED IN A SOLE SOURCE"
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 0 LOCATE 11,10:PRINT "MODE.  THESE VALIDATED PRICES, OFTEN REFERRED TO AS "
10 LOCATE 13,10:PRINT "VALUE BASED PRICES, ARE ATTEMPTS TO DEFINE WHAT THE"
20 LOCATE 15,10:PRINT "ITEM 'SHOULD COST' IF IT WERE ACQUIRED UNDER COMPETI-"
30 LOCATE 17,10:PRINT "TIVE CONDITIONS.  REVIEWS MAY BE ACCOMPLISHED AS "
40 LOCATE 19,10:PRINT "EITHER LEVEL I OR LEVEL II REVIEW."
50 GOSUB 2620:CLS:GOTO 2980
60 REM       THIS IS THE HELP FOR QUESTION 2 ON SCREEN 2
70 CLS:LOCATE 2,5:PRINT "QUESTION 2,SCREEN 2"
80 LOCATE 4,5:PRINT "WILL THIS BE A LEVEL I ANALYSIS? (Y/N)"
90 LOCATE 7,10:PRINT "A LEVEL I ANALYSIS IS MORE OF A LIMITED REVIEW IN WHICH'

00 LOCATE 9,10:PRINT "THE LAST PRICE PAID IS REVIEWED AGAINST THE EXISTING"
10 LOCATE 11,10:PRINT "DOCUMENTATION TO DETERMINE IF THAT PRICE IS OUT OF"
20 LOCATE 13,10:PRINT "LINE WITH THE VALUE OF THE ITEM.  THESE LEVEL I "
30 LOCATE 15,10:PRINT "REVIEWS ARE ACCOMPLISHED RELATIVELY QUICKLY.
40 LOCATE 17,10:PRINT "A LEVEL II ANALYSIS IS MUCH MORE EXTENSIVE AND IN-"
50 LOCATE 19,10:PRINT "CLUDES MATERIAL, PROCESS, AND LABOR ESTIMATES."
60 LOCATE 21,10:PRINT "LEVEL I ANALYSIS USUALLY REQUIRES ABOUT 1 HOUR OF"
70 LOCATE 23,10:PRINT "EFFORT AND A LEVEL II ABOUT 12.5 HOURS."
80 GOSUB 2620:CLS:GOTO 2980
90 REM       THIS IS THE HELP FOR QUESTION 3 ON SCREEN 2
00 CLS:LOCATE 2,5:PRINT "QUESTION 3,SCREEN 2"
10 LOCATE 4,5:PRINT "WHAT WILL BE THE AVERAGE GRADE OF THE ANALYSTS?"
20 LOCATE 7,10:PRINT "ADD THE GRADES OF THE ANALYSTS AND DIVIDE BY THE "
 0 LOCATE 9,10:PRINT "NUMBER OF ANALYSTS AND THEN SELECT THE NEAREST  "
+0 LOCATE 11,10:PRINT "WHOLE NUMBER.  THE MODEL ACCEPTS NUMBERS FROM 7 "
50 LOCATE 13,10:PRINT "TO 15. "
60 GOSUB 2620:CLS:GOTO 2980
70 REM       THIS IS THE HELP FOR QUESTION 4 ON SCREEN 2
80 CLS:LOCATE 2,5:PRINT "QUESTION 4,SCREEN 2"
90 LOCATE 4,5:PRINT "HOW MANY SOURCE APPROVALS WILL BE REQUIRED?"
00 LOCATE 7,10:PRINT "THIS IS THE REVIEW OF POTENTIAL SOURCES BY REVIEWING"
10 LOCATE 9,10:PRINT "THE DOCUMENTATION SUBMITTED BY THE POTENTIAL SOURCE"
20 LOCATE 11,10:PRINT "INDEPENDENT OF ANY SPECIFIC REQUEST BY THE AIR FORCE."
30 LOCATE 15,10:PRINT "THIS SOURCE APPROVAL USUALLY REQUIRES ABOUT 20 HOURS"
40 LOCATE 17,10:PRINT "OF EFFORT BY THE GOVERNMENT."
50 GOSUB 2620:CLS:GOTO 2980
60 REM       THIS IS THE HELP FOR QUESTION 5 ON SCREEN 2
70 CLS:LOCATE 2,5:PRINT "QUESTION 5,SCREEN 2"
80 LOCATE 4,5:PRINT "HOW MANY PLANT VISITS FOR THIS SOURCE APP.?"
90 LOCATE 7,10:PRINT "ENTER THE NUMBER OF PLANNED VISITS."
00 GOSUB 2620:CLS:GOTO 2980
10 REM       THIS IS THE HELP FOR QUESTION 6 ON SCREEN 2
20 CLS:LOCATE 2,5:PRINT "QUESTION 6,SCREEN 2"
30 LOCATE 4,5:PRINT "HOW MANY AF PERS WILL MAKE THESE VISITS?"
40 LOCATE 7,10:PRINT "ENTER THE AVERAGE NUMBER OF TRAVELERS OF EACH"
50 LOCATE 9,10:PRINT "OF THE SOURCE APPROVAL VISITS.                "
60 GOSUB 2620:CLS:GOTO 2980
70 REM       THIS IS THE HELP FOR QUESTION 7 ON SCREEN 2
 0 CLS:LOCATE 2,5:PRINT "QUESTION 7,SCREEN 2"
 0 LOCATE 4,5:PRINT "WHAT IS THE AVERAGE GRADE OF THESE VISITORS?"
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2000 LOCATE 7,10:PRINT "ADD THE GRADES OF THE VISITORS AND DIVIDE BY"
2010 LOCATE 9,10:PRINT "BY THE NUMBERS OF PERSONNEL AND THEN SELECT"
2020 LOCATE 11,10:PRINT "THE NEAREST WHOLE NUMBER. "
2030 LOCATE 13,10:PRINT "THE MODEL WILL ACCEPT 7 TO 15 AS ENTRIES."
2040 GOSUB 2620:CLS:GOTO 2980
2050 REM       THIS IS THE HELP FOR QUESTION 8 ON SCREEN 2
2060 CLS:LOCATE 2,5:PRINT "QUESTION 8,SCREEN 2"
2070 LOCATE 4,5:PRINT "WILL THIS BE A SOLE SOURCE PROCUREMENT? (Y/N)"
2080 LOCATE 7,10:PRINT "SELF EXPLAINATORY....SELECT Y OR N "
2090 GOSUB 2620:CLS:GOTO 2980
2100 REM       THIS IS THE HELP FOR QUESTION 1 ON SCREEN 3
2110 CLS:LOCATE 2,5:PRINT "QUESTION 1,SCREEN 3"
2120 LOCATE 4,5:PRINT "WILL REVERSE ENGINEERING BE ATTEMPTED? (Y/N)"
2130 LOCATE 7,10:PRINT "REVERSE ENGINEERING (RE) CAN RANGE FROM SIMPLE"
2140 LOCATE 9,10:PRINT "SUBSTITUTION OF GOVERNMENT/INDUSTRY SPECIFICATIONS"
2150 LOCATE 11,10:PRINT "WHEN CONTRACTOR SPECIFICATIONS ARE MISSING OR THE "
2160 LOCATE 13,10:PRINT "GOVERNMENT LACKS RIGHTS IN DATA FOR THE CONTRACTOR "
2170 LOCATE 15,10:PRINT "SPECIFICATIONS TO DEVELOPMENT OF A MAJOR PROTION    "
2180 LOCATE 17,10:PRINT "OF THE ENGINEERING DOCUMENTATION NEEDED TO PRODUCE "
2190 LOCATE 19,10:PRINT "THE ITEM. TWO LEVELS OF RE ON EFFORT ARE AVAILABLE."
2200 GOSUB 2620:CLS:GOTO 3520
2210 REM       THIS IS THE HELP FOR QUESTION 2 ON SCREEN 3
2220 CLS:LOCATE 2,5:PRINT "QUESTION 2,SCREEN 3"
2230 LOCATE 4,5:PRINT "WILL IT BE A LEVEL I EFFORT ? (Y/N)"
   0 LOCATE 7,10:PRINT "NORMALLY LEVEL I CAN BE ACCOMPLISHED BY REVIEW"
2250 LOCATE 9,10:PRINT "OF AVAILABLE DATA AND USE OF GENERAL ENGINEERING"
2260 LOCATE 11,10:PRINT "KNOWLEDGE.  PHYSICAL MEASURING AND ANALYSIS OF THE"
2270 LOCATE 13,10:PRINT "PART IS NOT NECESSARY.
2280 LOCATE 15,10:PRINT "LEVEL II ANALYSIS IS MORE EXTENSIVE THAN LEVEL I AND"
2290 LOCATE 17,10:PRINT "INCLUDES MEASURING AND ANALYSIS OF THE PART."
2300 LOCATE 19,10:PRINT "LEVEL I EFFORT IS MEASURED AS 0.1 HOURS TIMES THE"
2310 LOCATE 21,10:PRINT "NUMBER OF CHASS I DRAWINGS.  THE LEVEL II MULTI-"
2320 LOCATE 23,10:PRINT "PLIER IS 4.0 HOURS PER CLASS I DRAWING."
2330 GOSUB 2620:CLS:GOTO 430
2340 REM       THIS IS THE HELP FOR QUESTION 3 ON SCREEN 3
2350 CLS:LOCATE 2,5:PRINT "QUESTION 3,SCREEN 3"
2360 LOCATE 4,5:PRINT "THE AVERAGE GRADE OF THESE ENGINEERS WILL BE..."
2370 LOCATE 7,10:PRINT "COMPUTE AS WITH OTHER AVERAGE GRADE USING THE GRADES"
2380 LOCATE 9,10:PRINT "OF THE ENGINEERS INVOLVED. REMEMBER THE MODEL WILL"
2390 LOCATE 11,10:PRINT "ACCEPT ONLY WHOLE NUMBERS FROM 7 TO 15."
2400 GOSUB 2620:CLS:GOTO 3520
2410 REM       THIS IS THE HELP FOR QUESTION 4 ON SCREEN 3
2420 CLS:LOCATE 2,5:PRINT "QUESTION 4,SCREEN 3"
2430 LOCATE 4,5:PRINT "WILL A PRE-AWARD SURVEY BE CONDUCTED? (Y/N)"
2440 LOCATE 7,10:PRINT "WHEN A NEW SOURCE IS BEING CONSIDERED FOR AWARD, IT"
2450 LOCATE 9,10:PRINT "IS NECESSARY THAT THE GOVERNMENT MAKE AN ASSESSMENT"
2460 LOCATE 11,10:PRINT "OF THE RESPONSIBILITY AND RESPONSIVENESS OF THE"
2470 LOCATE 13,10:PRINT "OFFEROR. THE SURVEY MAY REQUIRE A VISIT TO THE "
2480 LOCATE 15,10:PRINT "OFFEROR'S FACILITY. RECENT ESTIMATES INDICATE THAT"
   0 LOCATE 17,10:PRINT "1/3 OF NEW OFFERORS WILL REQUIRE A PAS AND THAT 40"
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 0 LOCATE 19,10:PRINT "PERCENT OF THESE WILL REQUIRE AN ON SITE VISIT."
.0 LOCATE 21,10:PRINT "PAS WILL REQUIRE 5 HOURS PLUS 6 WHEN ON SITE REQUIRED."

20 GOSUB 2620:CLS:GOTO 3520
30 REM        THIS IS THE HELP FOR QUESTION 5 ON SCREEN 3
40 CLS:LOCATE 2,5:PRINT "QUESTION 5,SCREEN 3"
50 LOCATE 4,5:PRINT "WILL THIS SURVEY REQUIRE ON SITE VISITS? (Y/N)"
60 LOCATE 7,10:PRINT "SELF EXPLAINATORY....SELECT Y OR N "
70 GOSUB 2620:CLS:GOTO 3520
80 REM        THIS IS THE HELP FOR QUESTION 6 ON SCREEN 3
90 CLS:LOCATE 2,5:PRINT "QUESTION 6,SCREEN 3"
00 LOCATE 4,5:PRINT "HOW MANY VISITS WILL BE REQUIRED?"
10 LOCATE 7,10:PRINT "SELF EXPLAINATORY....ENTER NUMBER."
20 GOSUB 2620:CLS:GOTO 3520
30 REM        THIS IS THE HELP FOR QUESTION 7 ON SCREEN 3
40 CLS:LOCATE 2,5:PRINT "QUESTION 7,SCREEN 3"
50 LOCATE 4,5:PRINT "HOW MANY PERSONNEL ON THE AE VISIT TEAM?"
60 LOC
70 GOSUB 2620:CLS:GOTO 3520
80 REM        THIS IS THE HELP FOR QUESTION 8 ON SCREEN 3
90 CLS:LOCATE 2,5:PRINT "QUESTION 8,SCREEN 3"
00 LOCATE 4,5:PRINT "WHAT IS THE AVE. GS GRADE OF THIS TEAM?"
10 LOCATE 7,10:PRINT "ADD THE GRADES OF THE TEAM MEMBERS AND DIVIDE BY THE "
20 LOCATE 9,10:PRINT "NUMBER OF TEAM MEMBERS AND THEN SELECT THE NEAREST   "
30 LOCATE 11,10:PRINT "WHOLE NUMBER.  THE MODEL ACCEPTS WHOLE NUMBERS   "
'0 LOCATE 13,10:PRINT "FROM 7 TO 15. "
50 GOSUB 2620:CLS:GOTO 3520
60 REM        THIS IS THE HELP FOR QUESTION 1 ON SCREEN 4
70 CLS:LOCATE 2,5:PRINT "QUESTION 1,SCREEN 4"
80 LOCATE 4,5:PRINT "IS THIS ANALYSIS FOR MORE THAN ONE ITEM? (Y/N)"
90 LOCATE 7,10:PRINT "SELF EXPLANATORY
00 LOCATE 9,10:PRINT "      ANSWER WITH Y FOR YES
10 LOCATE 11,10:PRINT "                  N FOR NO
20 GOSUB 2620:CLS:GOTO 4060
30 REM        THIS IS THE HELP FOR QUESTION 2 ON SCREEN 4
40 CLS:LOCATE 2,5:PRINT "QUESTION 2,SCREEN 4"
50 LOCATE 4,5:PRINT " HOW MANY CLASS 1 (8.5 BY 11) DRAWINGS?"
60 LOCATE 7,10:PRINT "COUNT THE TOTAL NUMBER OF THESE CLASS 1, 8.5 INCHES"
70 LOCATE 9,10:PRINT "BY 11 INCHES, DRAWINGS FOR ALL OF THE CBO ITEM(S)."
80 GOSUB 2620:CLS:GOTO 4060
90 REM        THIS IS THE HELP FOR QUESTION 3 ON SCREEN 4
00 CLS:LOCATE 2,5:PRINT "QUESTION 3,SCREEN 4"
10 LOCATE 4,5:PRINT "WHAT IS THE WEIGHT OF THE ITEM(S)?"
20 LOCATE 7,10:PRINT "ENTER THE TOTAL ITEM(S) WEIGHT IN POUNDS."
30 LOCATE 9,10:PRINT "     IF 57 POUNDS....ENTER 57"
40 GOSUB 2620:CLS:GOTO 4060
50 REM        THIS IS THE HELP FOR QUESTION 4 ON SCREEN 4
60 CLS:LOCATE 2,5:PRINT "QUESTION 4,SCREEN 4"
70 LOCATE 4,5:PRINT "WHAT IS THE TOTAL SPO BUDGET?"
80 LOCATE 7,10:PRINT "ENTER THE TOTAL BUDGET FOR THE CURRENT LIFE OF THE SPO."

90 LOCATE 9,10:PRINT "OF THE SPO."
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11000 LOCATE 4,5:PRINT "WHAT IS THE AVE. GRADE OF THE CONTRACTING TEAM?"
11010 LOCATE 7,10:PRINT "THIS IS THE GROUP OF AF CONTRACTING PERSONNEL"
11020 LOCATE 9,10:PRINT "THAT ARE RESPONSIBLE FOR THE CONTRACTING EFFORTS"
11030 LOCATE 11,10:PRINT "ASSOCIATED WITH THE CBO ITEM(S).  COMPUTE THE "
11040 LOCATE 13,10:PRINT "AVERAGE GRADE AS NOTED IN PREVIOUS QUESTIONS.
11050 LOCATE 15,10:PRINT "    DON'T FORGET....ONLY 7 TO 15 ARE ACCEPTABLE."
11060 GOSUB 2620:CLS:GOTO 5130
11070 REM       THIS IS THE HELP FOR QUESTION 2 ON SCREEN 6
11080 CLS:LOCATE 2,5:PRINT "QUESTION 2,SCREEN 6"
11090 LOCATE 4,5:PRINT "HOW MANY SOURCES WILL BE DEVELOPED?"
11100 LOCATE 7,10:PRINT "SOURCE DEVELOPMENT USUALLY INCLUDES ACTIONS TAKEN"
11110 LOCATE 9,10:PRINT "BY THE AIR FORCE TO VALIDATE THE CAPABILITY OF A "
11120 LOCATE 11,10:PRINT "SECOND SOURCE FOR A NONCOMPETITIVE ITEM OR A "
11130 LOCATE 13,10:PRINT "SINGLE SOURCE FOR AN ITEM WHICH HAS NO KNOWN"
11140 LOCATE 15,10:PRINT "SOURCES."
11150 LOCATE 19,10:PRINT "SOURCE DEVELOPMENT AVERAGES 120 HOURS OF GOVERNMENT
11160 LOCATE 21,10:PRINT "EFFORT."
11170 GOSUB 2620:CLS:GOTO 5130
11180 REM       THIS IS THE HELP FOR QUESTION 3 ON SCREEN 6
11190 CLS:LOCATE 2,5:PRINT "QUESTION 3,SCREEN 6"
11200 LOCATE 4,5:PRINT "HOW MANY PLANT VISITS FOR SOURCE DEVELOPMENT?
11210 LOCATE 7,10:PRINT "SELF-EXPLANATORY.  ENTER THE NUMBER."
11220 GOSUB 2620:CLS:GOTO 5130
11230 REM       THIS IS THE HELP FOR QUESTION 4 ON SCREEN 6
11240 CLS:LOCATE 2,5:PRINT "QUESTION 4,SCREEN 6"
11250 LOCATE 4,5:PRINT "HOW MANY AF VISITORS ON EACH TRIP?"
11260 LOCATE 7,10:PRINT "THIS MAY VARY FROM TRIP TO TRIP SO USE AN AVERAGE."
11270 LOCATE 9,10:PRINT "INCLUDE BOTH MILITARY AND CIVILIAN AF PERSONNEL."
11280 GOSUB 2620:CLS:GOTO 5130
11290 REM       THIS IS THE HELP FOR QUESTION 5 ON SCREEN 6
11300 CLS:LOCATE 2,5:PRINT "QUESTION 5,SCREEN 6"
11310 LOCATE 4,5:PRINT "WHAT WILL BE THEIR AVERAGE GRADE?"
11320 LOCATE 7,10:PRINT "THIS IS THE AVERAGE GRADE OF THE VISITORS IN THE "
11330 LOCATE 9,10:PRINT "PREVIOUS QUESTION.  THE MODEL WILL ACCEPT GRADES"
11340 LOCATE 11,10:PRINT "FROM 7 TO 15."
11350 GOSUB 2620:CLS:GOTO 5130
11360 REM       THIS IS THE HELP FOR QUESTION 6 ON SCREEN 6
11370 CLS:LOCATE 2,5:PRINT "QUESTION 6,SCREEN 6"
11380 LOCATE 4,5:PRINT "HOW MANY EMPLOYEES AT THE NEW CONTRACTOR'S FACILITY?"
11390 LOCATE 7,10:PRINT "THIS IS THE TOTAL OF EMPLOYEES AT ALL OF THE "
11400 LOCATE 9,10:PRINT "FACILITIES ENGAGED IN THE CBO ITEM(S)."
11410 GOSUB 2620:CLS:GOTO 5130
11420 REM       THIS IS THE HELP FOR QUESTION 7 ON SCREEN 6
11430 CLS:LOCATE 2,5:PRINT "QUESTION 7,SCREEN 6"
11440 LOCATE 4,5:PRINT "WHAT IS THE HIGHEST CLASSIFICATION OF THE CBO ITEM(S)?
11450 LOCATE 7,10:PRINT "THE MODEL WILL ACCEPT UNCLAS FOR UNCLASSIFIED"
11460 LOCATE 9,10:PRINT "                              CONF   FOR CONFIDENTIAL"
11470 LOCATE 11,10:PRINT "                              SEC    FOR SECRET"
11480 LOCATE 13,10:PRINT "                              TSEC   FOR TOP SECRET"
11490 LOCATE 15,10:PRINT "          ENTER ONLY THESE VARIABLES."
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 500 GOSUB 2620:CLS:GOTO 5130
 510 REM        THIS IS THE HELP FOR QUESTION 8 ON SCREEN 6
1520 CLS:LOCATE 2,5:PRINT "QUESTION 8,SCREEN 6"
1530 LOCATE 4,5:PRINT "THE NUMBER OF NEW CONTR PERS REQUIRING CLEARANCES IS..."
1540 LOCATE 7,10:PRINT "ENTER THE NUMBER OF PERSONNEL AT THE NEW CONTRACTOR'S"
1550 LOCATE 9,10:PRINT "FACILITY THAT WILL REQUIRE CLEARANCES THAT THEY "
1560 LOCATE 11,10:PRINT "DO NOT CURRENTLY POSSES."
1570 LOCATE 13,10:PRINT "
1580 GOSUB 2620:CLS:GOTO 5130
1590 REM        THIS IS THE HELP FOR QUESTION 1 ON SCREEN 7
1600 CLS:LOCATE 2,5:PRINT "QUESTION 1,SCREEN 7"
1610 LOCATE 4,5:PRINT "HOW MANY PROPOSALS IN SOURCE SELECTION?"
1620 LOCATE 7,10:PRINT "THIS IS THE KNOWN OR ANTICIPATED NUMBER OF PROPOSALS"
1630 LOCATE 9,10:PRINT "THAT WILL HAVE TO BE EVALUATED BY THE SPO TEAM."
1640 GOSUB 2620:CLS:GOTO 5660
1650 REM        THIS IS THE HELP FOR QUESTION 2 ON SCREEN 7
1660 CLS:LOCATE 2,5:PRINT "QUESTION 2,SCREEN 7"
1670 LOCATE 4,5:PRINT "HOW MAY AF PEOPLE IN THE SOURCE SELECTION?"
1680 LOCATE 7,10:PRINT "THIS IS THE NUMBER OF PERSONNEL THAT WILL PARTICIPATE"
1690 LOCATE 9,10:PRINT "IN THE SOURCE SELECTION PROCESS."
1700 GOSUB 2620:CLS:GOTO 5660
1710 REM        THIS IS THE HELP FOR QUESTION 3 ON SCREEN 7
1720 CLS:LOCATE 2,5:PRINT "QUESTION 3,SCREEN 7"
1730 LOCATE 4,5:PRINT "WHAT IS THEIR AVERAGE GRADE?"
 740 LOCATE 7,10:PRINT "DETERMINE THE AVERAGE GRADE OF THE SOURCE SELECTION"
 750 LOCATE 9,10:PRINT "TEAM AND ENTER A WHOLE NUMBER FROM 7 TO 15."
 760 GOSUB 2620:CLS:GOTO 5660
 770 REM        THIS IS THE HELP FOR QUESTION 4 ON SCREEN 7
 780 CLS:LOCATE 2,5:PRINT "QUESTION 4,SCREEN 7"
 790 LOCATE 4,5:PRINT "MONTHS OF SPO CBO MGT RESPONSIBILITY IS...?"
 800 LOCATE 7,10:PRINT "THIS IS THE TOTAL TIME FROM BEGINNING SCREENING TO"
 810 LOCATE 9,10:PRINT "DELIVERY OF THE FINAL CBO ITEM TO THE PRIME.  ENTER"
 820 LOCATE 11,10:PRINT "THE NUMBER OF MONTHS REQUIRED OF THIS ACTIVITY."
 830 LOCATE 13,10:PRINT "
 840 GOSUB 2620:CLS:GOTO 5660
 850 REM        THIS IS THE HELP FOR QUESTION 5 ON SCREEN 7
 860 CLS:LOCATE 2,5:PRINT "QUESTION 5,SCREEN 7"
 870 LOCATE 4,5:PRINT "AVE. HRS. PER WEEK IN GEN. CBO MANAGEMENT IS...?"
 880 LOCATE 7,10:PRINT "THIS IS AN ESTIMATE OF THE TIME DEVOTED TO THE "
 890 LOCATE 9,10:PRINT "MANAGEMENT OF THE CBO ITEMS BY THE SPO.  ENTER"
 900 LOCATE 11,10:PRINT "THE AVERAGE NUMBER OF HOURS DEVOTED TO THE "
 910 LOCATE 13,10:PRINT "MANAGEMENT OF THE CBO ITEMS BY SPO PERSONNEL."
 920 GOSUB 2620:CLS:GOTO 5660
 930 REM        THIS IS THE HELP FOR QUESTION 6 ON SCREEN 7
 940 CLS:LOCATE 2,5:PRINT "QUESTION 6,SCREEN 7"
 950 LOCATE 4,5:PRINT "AVE. GRADE OF THE SPO CBO MANAGEMTN TEAM IS...?"
 960 LOCATE 7,10:PRINT "THIS IS THE AVERAGE GRADE OF THE SPO TEAM RESPONSIBLE"
 970 LOCATE 9,10:PRINT "FOR THE MANAGEMENT OF THE CBO ITEMS FROM THE START"
 980 LOCATE 11,10:PRINT "OF SCREENING TO THE DELIVERY TO THE PRIME."
 990 GOSUB 2620:CLS:GOTO 5660
```

```
2000 REM       THIS IS THE HELP FOR QUESTION 7 ON SCREEN 7
2010 CLS:LOCATE 2,5:PRINT "QUESTION 7,SCREEN 7"
2020 LOCATE 4,5:PRINT "HOW MANY SOLICITATION SETS WILL BE SENT OUT?"
2030 LOCATE 7,10:PRINT "THE SOLICITATION OR BID SETS ARE THOSE PACKAGES THAT"
2040 LOCATE 9,10:PRINT "ARE PREPARED BY THE GOVERNMENT TO SOLICIT BIDS FROM"
2050 LOCATE 11,10:PRINT "POTENTIALLY INTERESTED VENDORS.  THESE SETS DESCRIBE"
2060 LOCATE 13,10:PRINT "THE AIR FORCE REQUIREMENTS AND THE PROPOSED CONTRAC-"
2070 LOCATE 15,10:PRINT "TING APPROACH TO THE PROCUREMENT."
2080 LOCATE 19,10:PRINT "THESE SOLICITATION SETS GENERALLY COST $10.00 EACH."
2090 LOCATE 21,10:PRINT "ENTER THE NUMBER OF BID SETS PRODUCED."
2100 GOSUB 2620:CLS:GOTO 5660
2110 REM       THIS IS THE HELP FOR QUESTION 8 ON SCREEN 7
2120 CLS:LOCATE 2,5:PRINT "QUESTION 8,SCREEN 7"
2130 LOCATE 4,5:PRINT "WHAT IS THE AVE. NO. OF PERSONNEL IN THE SPO?"
2140 LOCATE 7,10:PRINT "THIS IS THE NUMBER OF PERSONNEL IN THE SPO FROM ITS"
2150 LOCATE 9,10:PRINT "BEGINNING AS DETERMINED BY THE BEGINNING OF A BUDGET"
2160 LOCATE 11,10:PRINT "TO THE END OF THE CURRENT BUDGET.  COMPUTE THE "
2170 LOCATE 13,10:PRINT "AVERAGE NUMBER OF SPO PERSONNEL DURING THIS PERIOD."
2180 LOCATE 15,10:PRINT "                ENTER THIS NUMBER."
2190 GOSUB 2620:CLS:GOTO 5660
```

A. COMPUTER PROGRAMS

A.3 CALCUU

```
10 REM       THIS IS THE CALCULATIONS PROGRAM
   REM            .........CALCUU.BAS........
30 DIM A1$(10),A2$(10),A3$(10),A4$(10),A5$(10),A6$(10),A7$(10),A8$(10)
40 DIM A1(10),A2(10),A3(10),A4(10),A5(10),A6(10),A7(10),A8(10)
50 CLS
60 KEY OFF
70 REM   THIS IS A SQUARE SCREEN PROGRAM
80 CLS
90 LOCATE 3,5
100 PRINT "    ------------------------------------------------------------
   "
110 LOCATE 4,5
120 PRINT "  ////////////////////////////////////////////////////////////////
///|"
130 LOCATE 5,5
140 PRINT " ////////////////////////////////////////////////////////////////
///|"
150 LOCATE 6,5
160 PRINT "||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
|/|"
170 FOR I = 7 TO 23
180 LOCATE I,5
190 PRINT "||
 |/|"
200 NEXT I
210 LOCATE 9,5
  0 PRINT "||                              COMPONENT BREAKOUT
 |/|"
230 LOCATE 13,5
240 PRINT "||                           OFFSETTING COST MODELING
 |/|"
250 LOCATE 17,5
260 PRINT "||                             COMPUTATIONAL RESULTS
 |/|"
270 LOCATE 21,5
280 PRINT "||
 |/|"
290 LOCATE 22,5
300 PRINT "||   by PJSA,Inc.                                          1987
 |/|"
310 LOCATE 24,5
320 PRINT "||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 |/"
330 BEEP
340 I = 1 : FOR I = 1 TO 2000:NEXT:CLS
350 REM
360 KEY OFF
370 CLS
380 LOCATE 3,10
390 PRINT "**************************************************************"
```

```
   LOCATE 4,10
 10 PRINT "*                                                                    *"
 20 LOCATE 5,10
 30 PRINT "*                  THE FOLLOWING FILES ARE AVAILABLE                 *
 40 LOCATE 6,10
 50 PRINT "*                                                                    *"
 60 LOCATE 7,10
 70 PRINT "********************************************************************** "
 80 LOCATE 9,5:FILES "*.DAT"
 90 LOCATE 20,15
 00 INPUT "WHAT PROGRAM DO YOU WISH TO RUN (NAME.DAT)";NAMNO$
 10 REM
 20 KEY OFF
 30 REM      ************************************************************
 40 REM              THIS IS THE COST ESTIMATING SECTION FOR THE SPO
 50 REM      ************************************************************
 60 KEY OFF
 70 REM      ************************************************************
 80 REM   THIS SECTION ENTERS PREVIOUS DATA INTO THE MODEL FOR CALCULATION.
 90 REM      ************************************************************
 00 OPEN NAMNO$   FOR INPUT AS #1
 10 FOR I = 1 TO 7
 20 INPUT #1,A1$(I),A2$(I),A3$(I),A4$(I),A5$(I),A6$(I),A7$(I),A8$(I)
 30 NEXT
 40 CLOSE #1
  ) A1(1)=VAL(A1$(1)):A2(1)=VAL(A2$(1)):A3(1)=VAL(A3$(1)):A4(1)=VAL(A4$(1))
 60 A5(1)=VAL(A5$(1)):A6(1)=VAL(A6$(1)):A7(1)=VAL(A7$(1)):A8(1)=VAL(A8$(1))
 70 A3(2)=VAL(A3$(2)):A4(2)=VAL(A4$(2)):A5(2)=VAL(A5$(2)):A6(2)=VAL(A6$(2))
 80 A7(2)=VAL(A7$(2))
 90 A3(3)=VAL(A3$(3)):A6(3)=VAL(A6$(3)):A7(3)=VAL(A7$(3)):A8(3)=VAL(A8$(3))
 00 A2(4)=VAL(A2$(4)):A3(4)=VAL(A3$(4)):A4(4)=VAL(A4$(4)):A5(4)=VAL(A5$(4))
 10 A7(4)=VAL(A7$(4)):A8(4)=VAL(A8$(4)):
 20 A3(5)=VAL(A3$(5))
 30 A4(5)=VAL(A4$(5)):A5(5)=VAL(A5$(5)):A6(5)=VAL(A6$(5)):A7(5)=VAL(A7$(5))
 40 A8(5)=VAL(A8$(5))
 50 A1(6)=VAL(A1$(6)):A2(6)=VAL(A2$(6)):A3(6)=VAL(A3$(6)):A4(6)=VAL(A4$(6))
 60 A5(6)=VAL(A5$(6)):A6(6)=VAL(A6$(6)):A7(6)=VAL(A7$(6)):A8(6)=VAL(A8$(6))
 70 A1(7)=VAL(A1$(7)):A2(7)=VAL(A2$(7)):A3(7)=VAL(A3$(7)):A4(7)=VAL(A4$(7))
 80 A5(7)=VAL(A5$(7)):A6(7)=VAL(A6$(7)):A7(7)=VAL(A7$(7)):A8(7)=VAL(A8$(7))
 90 REM THIS IS THE SCREENING COST SECTION
 00 REM
 10 KEY OFF
 20 CLS
 30 REM      ************************************************************
 40 REM                      THIS IS THE SCREENING COST SECTION
 50 REM      ************************************************************
 60 REM  A1(1)--NO. OF PEOPLE INVOLVED IN SCREENING.
 70 REM  A2(1)--AVERAGE GRADE OF PEOPLE INVLOLVED IN SCREENING.
 80 REM  A3(1)--TOTAL TIME IN WEEKS OF SCREENING PROCESS.
 90 REM  A4(1)--PERCENTAGE OF TIME SPENT IN SCREENING PROCESS.
```

```
9    REM THIS IS THE CALCULATION OF THE PERSONNEL REQUIRED HOURS FOR SCREENING.
910 SH=A1(1)*A3(1)*A4(1)*(.01)*(40)*(1760/2080)
920 REM
930 REM THESE ARE THE SALARIES FOR THE EMPLOYEES AND ARE STEP 5 NUMBERS.
940 REM
950 IF A2(1)=7 THEN SAS=25546:GOTO 1020
960 IF A2(1)=9 THEN SAS=31255:GOTO 1020
970 IF A2(1)=11 THEN SAS=33985!:GOTO 1020
980 IF A2(1)=12 THEN SAS=36889!:GOTO 1020
990 IF A2(1)=13 THEN SAS=42611!:GOTO 1020
1000 IF A2(1)=14 THEN SAS=50354!:GOTO 1020
1010 IF A2(1)=15 THEN SAS=59234!:GOTO 1020
1020 REM
1030 REM THIS IS THE ANNUAL SUPPORT COSTS PER PERSON
1040 REM
1050 CE=4652.05:REM CE--CIVIL ENGINEERING COSTS
1060 MAT=8316!:REM MAT--MATERIAL COSTS
1070 EQP=49.2:REM EQP--EQUIPMENT COSTS
1080 MTM=4602.54:REM MTM--MATERIAL MARKUP COSTS
1090 MOV=277.31:REM MOV--MATERIAL OVERHEAD COSTS
1100 GA=2599.59:REM GA--G & A COSTS
1110 TVL=6070!:REM TVL--TRAVEL COSTS
1120 TEL=956.1:REM TEL--TELEPHONE COSTS
1130 REM
1140 REM THE ABOVE FIGURES WERE OBTAINED FROM ASD STUDIES.
1  0 REM
1160 SCPP=CE+MAT+EQP+MTM+MOV+GA+TVL+TEL  :REM ANNUAL SUPPORT COST/PERSON
1170 SCPT=SCPP*SH*(1/1760)
1180 SCPI=SCPT*(100+A7(1))*(.01)
1190 SCPPH=SCPP*(1/1760)
1200 REM
1210 REM THIS IS THE SCREENING PERSONNEL SALARY COSTS CALCULATION
1220 REM
1230 SCC=SH*(SAS)*(1/1760)+SCPPH*SH:SCC1=SH*(SAS)*(1/1760)
1240 SCI=SCC*(100+A7(1))*(.01):SCI1=SCC1*(100+A7(1))*(.01)
1250 SCIF=SCI1*(A8(1))*(.01)
1251 REM    ************************************************************
1252 REM                          PRICE ANALYSIS
1253 REM    ************************************************************
1260 REM
1270 REM THESE ARE THE SALARIES FOR THE EMPLOYEES AND ARE STEP 5 NUMBERS.
1280 REM
1290 IF A3(2)=7 THEN SES=25546:GOTO 1360
1300 IF A3(2)=9 THEN SES=31255:GOTO 1360
1310 IF A3(2)=11 THEN SES=33985!:GOTO 1360
1320 IF A3(2)=12 THEN SES=36889!:GOTO 1390
1330 IF A3(2)=13 THEN SES=42611!:GOTO 1360
1340 IF A3(2)=14 THEN SES=50354!:GOTO 1360
1350 IF A3(2)=15 THEN SES=59234!:GOTO 1360
1360 REM
1  0 REM A1(2)...PRICE ANALYSIS (Y/N)
```

```
1400 REM A2(2)...LEVEL I (Y/N)
1410 REM A3(2)...AVE. GRADE
1420 REM A2(4)...NO. OF CLASS 1 DRAWINGS
1430 IF A1$(2)="N" GOTO 1500
1440 IF A2$(2)="Y" GOTO 1460
1450 PAH=A2(4)*(12.5/15)+8.33:GOTO 1470
1460 PAH=A2(4)*(1/15)+.667
1470 PAC=PAH*SES*(1/1760)+PAH*SCPPH:PAC1=PAH*SES*(1/1760)
1480 PACI=PAC*(100+A7(1))*(.01):PACI1=PAC1*(100+A7(1))*(.01)
1490 PACIF=PACI1*(A8(1))*(.01):GOTO 1510
1500 PAH=0:PACI=0:PACIF=0:GOTO 1510
1510 REM     ************************************************************
1520 REM                          SOURCE APPROVAL MODEL
1530 REM     ************************************************************
1540 REM A4(2)...NUMBER OF SOURCE APPROVALS
1550 REM A5(2)...PLANT VISITS FOR SA
1560 REM A6(2)...NUMBER OF VISITORS
1570 REM A7(2)...AVE. GRADE OF VISITORS
1580 REM
1590 REM THESE ARE THE SALARIES FOR THE EMPLOYEES AND ARE STEP 5 NUMBERS.
1600 REM
1610 IF A7(2)=7 THEN SAS=25546:GOTO 1680
1620 IF A7(2)=9 THEN SAS=31255:GOTO 1680
1630 IF A7(2)=11 THEN SAS=33985!:GOTO 1680
1640 IF A7(2)=12 THEN SAS=36889!:GOTO 1680
1650 IF A7(2)=13 THEN SAS=42611!:GOTO 1680
1660 IF A7(2)=14 THEN SAS=50354!:GOTO 1680
1670 IF A7(2)=15 THEN SAS=59234!:GOTO 1680
1680 REM
1690 IF A4(2)=0 GOTO 1800
1700 SAH=A4(2)*20
1710 SAVH=A5(2)*A6(2)*20
1720 SAC=(SAH+SAVH)*SAS*(1/1760)+(SAH+SAVH)*(SCPPH)
1730 SAC1=(SAH+SAVH)*SAS*(1/1760)
1740 SACI=SAC*(100+A7(1))*(.01)
1750 SACI1=SAC1*(100+A7(1))*(.01)
1760 SACIF=SACI1*(A8(1))*(.01)
1770 REM     ************************************************************
1780 REM                              SOURCE DEVELPMENT
1790 REM     ************************************************************
1800 REM A2(6)...NUMBER OF SOURCE DEVELOPMENTS
1810 REM A3(6)...NUMBER OF PLANT VISITS
1820 REM A4(6)...NUMBER OF VISITORS
1830 REM A5(6)...AVERAGE GRADE OF VISITORS
1840 IF A5(6)=7 THEN SDS=25546:GOTO 1910
1850 IF A5(6)=9 THEN SDS=31255:GOTO 1910
1860 IF A5(6)=11 THEN SDS=33985!:GOTO 1910
1870 IF A5(6)=12 THEN SDS=36889!:GOTO 1910
1880 IF A5(6)=13 THEN SDS=42611!:GOTO 1910
1890 IF A5(6)=14 THEN SDS=50354!:GOTO 1910
```

```
)00 IF A5(6)=15 THEN SDS=59234!:GOTO 1910
)10 REM
)20 IF A2(6)=0 GOTO 2010
)30 SDH=A2(6)*120
)40 SDVH=A3(6)*A4(6)*20
)50 SDC=(SDH+SDVH)*SDS*(1/1760)+SCPPH*(SDH+SDVH)
)60 SDC1=(SDH+SDVH)*SDS*(1/1760)
)70 SDCI=SDC*(100+A7(1))*(.01)
)80 SDCI1=SDC1*(100+A7(1))*(.01)
)90 SDCIF=SDCI1*(A8(1))*(.01)
)00 REM     ************************************************************
)10 REM                        SOURCE SELECTION MODEL
)20 REM     ************************************************************
)30 REM A1(7)...NUMBER OF PROPOSALS IN SOURCE SELECTION
)40 REM A2(7)...NO. OF PERSONS ON SOURCE SELECTION TEAM
)50 REM A3(7)...AVERAGE GRADE
)60 REM A5(1)...PRIME COST OF CBO ITEM(S)
)70 REM
)80 REM THESE ARE THE SALARIES FOR THE EMPLOYEES AND ARE STEP 5 NUMBERS.
)90 REM
 00 IF A3(7)=7 THEN SSS=25546:GOTO 2170
 10 IF A3(7)=9 THEN SSS=31255:GOTO 2170
 20 IF A3(7)=11 THEN SSS=33985!:GOTO 2170
 30 IF A3(7)=12 THEN SSS=36889!:GOTO 2170
 10 IF A3(7)=13 THEN SSS=42611!:GOTO 2170
 50 IF A3(7)=14 THEN SSS=50354!:GOTO 2170
 60 IF A3(7)=15 THEN SSS=59234!:GOTO 2170
 70 IF A1(7) < 2 GOTO 2230
 80 SSH=(1/20000)*A5(1)*SQR(A1(7))
 90 SSC=SSH*SSS*(1/1760)+SSH*(SCPPH)
 00 SSC1=SSH*SSS*(1/1760)
 10 SSCI=SSC*(100+A7(1))*(.01)
 20 SSCI1=SSC1*(100+A7(1))*(.01)
 30 SSCIF=SSCI1*(A8(1))*(.01)
 40 REM     ************************************************************
 50 REM                         REVERSE ENGINEERING MODEL
 60 REM     ************************************************************
 70 REM A1(3)...REVERSE ENGR. (Y/N)
 80 REM A2(3)...LEVEL I (Y/N)
 90 REM A3(3)...AVE. GRADE OF ENGINEERS
 00 REM A2(4)...NUMBER OF DRAWINGS
 10 IF A1$(3)="N" GOTO 2440
 20 IF A2$(3)="N" GOTO 2380
 30 REM
 40 REM LEVEL I
 50 REM
 60 REH=(.1)*A2(4):GOTO 2410
 70 REM
 80 REM LEVEL II
 '0 REM
```

```
2400 REH=4*A2(4)
2410 REC=REH*(36889!)*(1/1760)+REH*(SCPPH)
2420 REC1=REH*(36889!)*(1/1760)
2430 RECI=REC*(100+A7(1))*(.01)
2440 RECI1=REC1*(100+A7(1))*(.01)
2450 RECIF=RECI1*(A8(1))*(.01)
2460 REM     ************************************************************
2470 REM                          FIRST ARTICLE MODEL
2480 REM     ************************************************************
2490 REM A6(4)...WILL THERE BE A FRIST ARTICLE
2500 REM A7(4)...NUMBER OF PERSONNEL
2510 REM A8(4)...AVERAGE GRADE OF FA PERSONNEL
2520 REM A2(4)...NUMBER OF DRAWINGS
2530 REM
2540 REM THESE ARE THE SALARIES FOR THE EMPLOYEES AND ARE STEP 5 NUMBERS.
2550 REM
2560 IF A8(4)=7 THEN SFA=25546:GOTO 2630
2570 IF A8(4)=9 THEN SFA=31255:GOTO 2630
2580 IF A8(4)=11 THEN SFA=33985!:GOTO 2630
2590 IF A8(4)=12 THEN SFA=36889!:GOTO 2630
2600 IF A8(4)=13 THEN SFA=42611!:GOTO 2630
2610 IF A8(4)=14 THEN SFA=50354!:GOTO 2630
2620 IF A8(4)=15 THEN SFA=59234!:GOTO 2630
2630 IF A6$(4)="N" GOTO 2670
2640 FAH=20+SQR(A2(4))
2650 FAC=FAH*(SFA)*(1/1760)+FAH*(SCPPH)
2660 FAC1=FAH*(SFA)*(1/1760)
2670 FACI=FAC*(100+A7(1))*(.01)
2680 FACI1=FAC1*(100+A7(1))*(.01)
2690 FACIF=FACI1*(A8(1))*(.01)
2700 REM     ************************************************************
2710 REM       THIS IS THE CONTRACTING COSTS OF PROCURING THE CBO ITEMS
2720 REM     ************************************************************
2730 REM
2740 REM THESE ARE THE SALARIES FOR THE EMPLOYEES AND ARE STEP 5 NUMBERS.
2750 REM
2760 IF A1(6)=7 THEN SES=25546:GOTO 2830
2770 IF A1(6)=9 THEN SES=31255:GOTO 2830
2780 IF A1(6)=11 THEN SES=33985!:GOTO 2830
2790 IF A1(6)=12 THEN SES=36889!:GOTO 2830
2800 IF A1(6)=13 THEN SES=42611!:GOTO 2830
2810 IF A1(6)=14 THEN SES=50354!:GOTO 2830
2820 IF A1(6)=15 THEN SES=59234!:GOTO 2830
2830 REM
2840 REM CONTRACTING FUNCTIONS COST ANALYSIS
2850 REM          A8$(2)...SOLE SOURCE (Y/N)
2860 REM
2870 IF A8$(2)="N" GOTO 3080
2880 IF A5(1) < 25000 GOTO 2980
2890 IF A5(1) < 100000! GOTO 2990
```

```
900 IF A5(1) < 500000! GOTO 3000
910 IF A5(1) <1000000! GOTO 3010
920 IF A5(1) <3500000! GOTO 3020
930 IF A5(1) <10000000# GOTO 3030
940 IF A5(1) <25000000# GOTO 3040
950 IF A5(1) <100000000# GOTO 3050
960 IF A5(1) <200000000# GOTO 3060
970 IF A5(1)=>200000000# GOTO 3070
980 CONH=55  : GOTO 3280
990 CONH=125 : GOTO 3280
000 CONH=150 : GOTO 3280
010 CONH=245 : GOTO 3280
020 CONH=375 : GOTO 3280
030 CONH=450 : GOTO 3280
040 CONH=520 : GOTO 3280
050 CONH=575 : GOTO 3280
060 CONH=635 : GOTO 3280
070 CONH=800 : GOTO 3280
080 IF A5(1) < 25000 GOTO 3180
090 IF A5(1) < 100000! GOTO 3190
100 IF A5(1) < 500000! GOTO 3200
110 IF A5(1) <1000000! GOTO 3210
120 IF A5(1) <3500000! GOTO 3220
130 IF A5(1) <10000000# GOTO 3230
140 IF A5(1) <25000000# GOTO 3240
150 IF A5(1) <100000000# GOTO 3250
160 IF A5(1) <200000000# GOTO 3260
170 IF A5(1)=>200000000# GOTO 3270
180 CONH=55  : GOTO 3280
190 CONH=125 : GOTO 3280
200 CONH=250 : GOTO 3280
210 CONH=335 : GOTO 3280
220 CONH=1725: GOTO 3280
230 CONH=2600: GOTO 3280
240 CONH=2600: GOTO 3280
250 CONH=3875: GOTO 3280
260 CONH=4850: GOTO 3280
270 CONH=6000: GOTO 3280
280 CONC=SES*(CONH)*(1/1760)+CONH*(SCFPH)
290 CONC1=SES*(CONH)*(1/1760)
300 CONCI=CONC*(100+A7(1))*(.01)
310 CONCI1=CONC1*(100+A7(1))*(.01)
320 CONCIF=CONCI1*(A8(1))*(.01)
330 REM    ************************************************************
340 REM                              PRE AWARD SURVEY
350 REM    ************************************************************
360 REM A4(3)...SURVEY  (Y/N)
370 REM A5(3)...ON SITE VISITS (Y/N)
380 REM A6(3)...NUMBER OF VISITS
390 REM A7(3)...NUMBER OF PERSONNEL ON VISITS
```

```
3400 REM A8(3)...AVERAGE GRADE OF VISITORS
3410 REM
3420 REM THESE ARE THE SALARIES FOR THE EMPLOYEES AND ARE STEP 5 NUMBERS.
3430 REM
3440 IF A8(3)=7 THEN SPA=25546:GOTO 3510
3450 IF A8(3)=9 THEN SPA=31255:GOTO 3510
3460 IF A8(3)=11 THEN SPA=33985!:GOTO 3510
3470 IF A8(3)=12 THEN SPA=36889!:GOTO 3510
3480 IF A8(3)=13 THEN SPA=42611!:GOTO 3510
3490 IF A8(3)=14 THEN SPA=50354!:GOTO 3510
3500 IF A8(3)=15 THEN SPA=59234!:GOTO 3510
3510 IF A4$(3)="N" GOTO 3530
3520 IF A5$(3)="N" THEN GOTO 3540 ELSE GOTO 3550
3530 HRRS=0:GOTO 3560
3540 HRRS=5:GOTO 3560
3550 HRRS=11:GOTO 3560
3560 PRH=A6(3)*A7(3)*(HRRS)
3570 PRC=PRH*(SPA)*(1/1760)+PRH*(SCPPH)
3571 PRC1=PRH*(SPA)*(1/1760)
3580 PRCI=PRC*(100+A7(1))*(.01)
3581 PRCI1=PRC1*(100+A7(1))*(.01)
3590 PRCIF=PRCI*(100+A8(1))*(.01)
3600 REM     ************************************************************
3610 REM                    GENERAL SPO COSTS FOR MANAGEMENT OF CBO
3620 REM     ************************************************************
3630 REM A4(7)...LIFE OF CBO
3640 REM A5(7)...AVE. HRS/MO ON CBO
3650 REM A6(7)...AVE. SPO MGT GRADE
3660 IF A6(7)=7 THEN SMS=25546:GOTO 3730
3670 IF A6(7)=9 THEN SMS=31255:GOTO 3730
3680 IF A6(7)=11 THEN SMS=33985!:GOTO 3730
3690 IF A6(7)=12 THEN SMS=36889!:GOTO 3730
3700 IF A6(7)=13 THEN SMS=42611!:GOTO 3730
3710 IF A6(7)=14 THEN SMS=50354!:GOTO 3730
3720 IF A6(7)=15 THEN SMS=59234!:GOTO 3730
3730 REM
3740 MGH=A4(7)*(A6(7))
3750 MGC=MGH*(SMS)*(1/1760)+MGH*(SCPPH)
3760 MGC1=MGH*(SMS)*(1/1760)
3770 MGCI=MGC*(100+A7(1))*(.01)
3780 MGCI1=MGC1*(100+A7(1))*(.01)
3790 MGCIF=MGCI1*(A8(1))*(.01)
3800 REM     ************************************************************
3810 REM                              SPO TOTAL COSTS
3820 REM     ************************************************************
3830 REM
3840 REM       TOTAL SPO HOURS FOR CBO
3850 REM
3860 HRT=SH+PAH+SAH+SDH+SSH+REH+FAH+CONH+MGH+PRH
3870 REM
3880 REM       SUPPORT COSTS FOR SPO ACTIVITY
3890 REM
```

```
3700 SUPT=HRT*(1/1760)*SCPP
3910 SUPTI=SUPT*(100+A7(1))*(.01)
3920 SUPTIF=SUPTI*(100+A8(1))*(.01)
3930 REM
3940 REM       TOTAL SPO COSTS FOR CBO
3950 REM
3960 SPOC=SCC+PAC+SAC+SDC+SSC+REC+FAC+CONC+MGC+PRC
3970 REM
3980 REM       TOTAL SPO INFLATED COSTS FOR CBO
3990 REM
4000 SPOCI=SCI+PACI+SACI+SDCI+SSCI+RECI+FACI+CONCI+MGCI+PRCI
4010 REM
4020 REM       TOTAL SPO INFLATED COSTS WITH FRINGES FOR CBO
4030 REM
4040 SPOCIF=SCIF+PACIF+SACIF+SDCIF+SSCIF+RECIF+FACIF+CONCIF+MGCIF+PRCIF
4050 REM
4060 REM       TOTAL SPO COSTS INCLUDING SUPPORT
4070 REM
4080 TOTC=SUPT+SPOC
4090 REM
4100 REM       TOTAL INFLATED SPO COSTS INCLUDING SUPPORT
4110 REM
4120 TOTCI=SUPTI+SPOCI
4130 REM
  40 REM       TOTAL INFLATED AND FRINGES SPO COSTS INCLUDING SUPPORT
4150 REM
4160 TOTCIF=SUPTIF+SPOCIF
4170 TOTH=SH+PAH+SAH+SDH+SSH+REH+FAH+CONH+MGH+PRH
4180 TOTC=SCC+PAC+SAC+SDC+SSC+REC+FAC+CONC+MGC+PRC
4190 TOTI=SCI+PACI+SACI+SDCI+SSCI+RECI+FACI+CONCI+MGCI+PRCI
4200 TOTIF=SCIF+PACIF+SACIF+SDCIF+SSCIF+RECIF+FACIF+CONCIF+MGCIF+PRCIF
4210 SCCT=SCI+SCIF
4220 PACT=PACI+PACIF
4230 SACT=SACI+SACIF
4240 SDCT=SDCI+SDCIF
4250 SSCT=SSCI+SSCIF
4260 RECT=RECI+RECIF
4270 FACT=FACI+FACIF
4280 CONCT=CONCI+CONCIF
4290 MGCT=MGCI+MGCIF
4300 PRCT=PRCI+PRCIF
4310 SPOT=SPOCI+SPOCIF
4320 REM
4330 TOTTT=SCCT+PACT+SACT+SDCT+SSCT+RECT+FACT+CONCT+MGCT+PRCT
4340 REM    ********************************************************
4350 REM                      ADMINISTRATION AND AUDIT
4360 REM    ********************************************************
4370 REM A6(1)...NEW CONTRACTOR CBO PRICE
4380 IF A6(1) < 300000! GOTO 4400
  90 ADAC=(.025)*A5(1):GOTO 4410
```

```
4400 ADAC=0
4410 ADACI=ADAC*(100+A7(1))*(.01)
4420 ADACIF=ADACI*(100+A8(1))*(.01)
4430 REM     ************************************************************
4440 REM                          GENERAL AND ADMIN COSTS
4450 REM     ************************************************************
4460 REM FROM ASD ESTIMATES $2599.59 PER PERSON PER YEAR
4470 REM     ************************************************************
4480 REM                              SECURITY COSTS
4490 REM     ************************************************************
4500 REM A6(6)...NUMBER OF EMPLOYEES
4510 REM A7(6)...CBO HIGHEST CLASSIFICATION
4520 REM A8(6)...NO. REQUIRING CLEARANCES
4530 IF A7$(6)="UNCLAS" GOTO 4570
4540 IF A7$(6)="CONF" GOTO 4580
4550 IF A7$(6)="SEC" GOTO 4590
4560 IF A7$(6)="TSEC" GOTO 4600
4570 SEC=0:GOTO 4620
4580 SEC=A6(6)*10+A7(6)*50:GOTO 4620
4590 SEC=A6(6)*20+A7(6)*200:GOTO 4620
4600 SEC=A6(6)*20+A7(6)*500:GOTO 4620
4610 REM     ************************************************************
4620 REM                                EEO SUPPORT
4630 REM     ************************************************************
4640 REM A1(5)...EEO SUPPORT (Y/N)
4650 REM A6(6)...NO OF EMPLOYEES
4660 IF A1$(5)="N" GOTO 4680
4670 EEOC=A6(6)*10:GOTO 4700
4680 EEOC=0
4690 REM     ************************************************************
4700 REM                           SOCIO-ECONOMIC SUPPORT
4710 REM     ************************************************************
4720 REM A2(5)...SOC-EC SUPPORT (Y/N)
4730 REM A6(6)...NO OF EMPLOYEES
4740 IF A2$(5)="N" GOTO 4760
4750 SOCEC=A6(6)*10:GOTO 4780
4760 SOCEC=0
4770 REM     ************************************************************
4780 REM                              WARANTEE COSTS
4790 REM     ************************************************************
4800 REM A3(5)...WARRANTEE COSTS
4810 WARC=A3(5)
4820 REM     ************************************************************
4830 REM                           TERMINATION COSTS
4840 REM     ************************************************************
4850 REM     ************************************************************
4860 REM A4(5)...TERMINATION COSTS
4870 TERMC=A4(5)
4880 REM     ************************************************************
4890 REM                           NEW EQUIPMENT COSTS
```

```
4900 REM     ************************************************************
4910 REM A7(5)...EQUIP/TOOL COSTS
4920 ETC=A7(5)
4930 REM     ************************************************************
4940 REM                    FACILITY MODIFICATION COSTS
4950 REM     ************************************************************
4960 REM A8(5)...FACILITY MOD COSTS
4970 FMODC=A8(5)
4980 REM     ************************************************************
4990 REM                              TRANSPORTATION
5000 REM     ************************************************************
5010 REM A5(5)...MILES TO TRAVEL
5020 REM A3(4)...WEIGHT OF CBO ITEM(S)
5030 REM A5(4)...VOLUME OF CBO ITEM(S)
5040 IF A3(4) > 1000 GOTO 5060
5050 TRANC=((1.1-.0083636*A3(4))*A3(4)*A5(5))/(100):GOTO 5080
5060 TRANC=-108.688+(9.269399*(A3(4)/100))+(.082285*A5(5))
5070 REM     ************************************************************
5080 REM                          SOLICITATION COSTS
5090 REM     ************************************************************
5100 REM A7(7)...SOLICITATIONS SENT OUT
5110 SOLC=10*A7(7)
5120 REM     ************************************************************
5130 REM                        NEW CONTRACTOR PRICE
5140 REM     ************************************************************
5150 REM A6(1)...NEW CONTRACTOR'S COST
5160 NCONC=A6(1)
5170 REM     ************************************************************
5180 REM                    OFFSETTING COST COMPUTATION
5190 REM     ************************************************************
5200 REM A4(4)...TOTAL SPO BUDGET
5210 REM A5(4)...TOTAL SPO TIME IN MONTHS
5220 REM A6(1)...NEW CONTRACTOR'S COST
5230 REM A8(7)...TOTAL NO OF SPO PERSONNEL
5240 SPOPH=(A8(7)*A5(4)*146.66)
5250 SPOPHC=A4(4)/SPOPH
5260 SPOCST=SPOPHC*HRT
5270 CBOPHC=(A5(1)-A6(1))
5280 CBFC=(SPOCST-CBOPHC):REM CBO COSTS LOST OPPORTUNITY COST
5290 TCBOC=SPOC+SEC+EEOC+SOCEC+WARC+TERMC+ETC+FMODC+ADAC+TRANC+SOLC
5300 TCBFC=SPOT+SEC+EEOC+SOCEC+WARC+TERMC+ETC+FMODC+ADAC+TRANC+SOLC
5310 SAVEC=(A5(1)-A6(1))-TCBOC
5320 SAVEF=(A5(1)-A6(1))-TCBFC
5330 THEOC=SAVEC-CBFC
5340 THEOF=SAVEF-CBFC
5350 GOTO 6540
5360 REM     ************************************************************
5370 REM                      SCREEN OUTPUT OF COMPUTATIONS
5380 REM     ************************************************************
5390 CLS:LOCATE 2,35
```

```
5400 PRINT "SUMMARY DATA":LOCATE 4,25
5410 PRINT "HOURS        COST        INFLA        FRINGE        TOTAL"
5420 LOCATE 6,1:PRINT "SCREENING" :LOCATE 8,1:PRINT "PRICE ANAL"
5430 LOCATE 10,1:PRINT "SOURCE APP"
5440 LOCATE 12,1:PRINT "SOURCE DEV":LOCATE 14,1:PRINT "SOURCE SEL"
5450 LOCATE 16,1:PRINT "REVERSE ENG":LOCATE 18,1:PRINT "FIRST ART"
5460 LOCATE 20,1:PRINT "CONTRACTING":LOCATE 22,1:PRINT "GEN SPO"
5470 LOCATE 6,24:PRINT USING "#######";INT(SH)
5480 LOCATE 8,24:PRINT USING "#######";INT(PAH)
5490 LOCATE 10,24:PRINT USING "#######";INT(SAH)
5500 LOCATE 12,24:PRINT USING "#######";INT(SDH)
5510 LOCATE 14,24:PRINT USING "#######";INT(SSH)
5520 LOCATE 16,24:PRINT USING "#######";INT(REH)
5530 LOCATE 18,24:PRINT USING "#######";INT(FAH)
5540 LOCATE 20,24:PRINT USING "#######";INT(CONH)
5550 LOCATE 22,24:PRINT USING "#######";INT(MGH)
5560 LOCATE 6,35:PRINT USING "#######";INT(SCC)
5570 LOCATE 8,35:PRINT USING "#######";INT(PAC)
5580 LOCATE 10,35:PRINT USING "#######";INT(SAC)
5590 LOCATE 12,35:PRINT USING "#######";INT(SDC)
5600 LOCATE 14,35:PRINT USING "#######";INT(SSC)
5610 LOCATE 16,35:PRINT USING "#######";INT(REC)
5620 LOCATE 18,35:PRINT USING "#######";INT(FAC)
5630 LOCATE 20,35:PRINT USING "#######";INT(CONC)
5640 LOCATE 22,35:PRINT USING "#######";INT(MGC)
5650 LOCATE 6,47:PRINT USING "#######";INT(SCI)
5660 LOCATE 8,47:PRINT USING "#######";INT(PACI)
5670 LOCATE 10,47:PRINT USING "#######";INT(SACI)
5680 LOCATE 12,47:PRINT USING "#######";INT(SDCI)
5690 LOCATE 14,47:PRINT USING "#######";INT(SSCI)
5700 LOCATE 16,47:PRINT USING "#######";INT(RECI)
5710 LOCATE 18,47:PRINT USING "#######";INT(FACI)
5720 LOCATE 20,47:PRINT USING "#######";INT(CONCI)
5730 LOCATE 22,47:PRINT USING "#######";INT(MGCI)
5740 LOCATE 6,60:PRINT USING "#######";INT(SCIF)
5750 LOCATE 8,60:PRINT USING "#######";INT(PACIF)
5760 LOCATE 10,60:PRINT USING "#######";INT(SACIF)
5770 LOCATE 12,60:PRINT USING "#######";INT(SDCIF)
5780 LOCATE 14,60:PRINT USING "#######";INT(SSCIF)
5790 LOCATE 16,60:PRINT USING "#######";INT(RECIF)
5800 LOCATE 18,60:PRINT USING "#######";INT(FACIF)
5810 LOCATE 20,60:PRINT USING "#######";INT(CONCIF)
5820 LOCATE 22,60:PRINT USING "#######";INT(MGCIF)
5830 LOCATE 6,72:PRINT USING "#######";INT(SCCT)
5840 LOCATE 8,72:PRINT USING "#######";INT(PACT)
5850 LOCATE 10,72:PRINT USING "#######";INT(SACT)
5860 LOCATE 12,72:PRINT USING "#######";INT(SDCT)
5870 LOCATE 14,72:PRINT USING "#######";INT(SSCT)
5880 LOCATE 16,72:PRINT USING "#######";INT(RECT)
5890 LOCATE 18,72:PRINT USING "#######";INT(FACT)
```

```
5700 LOCATE 20,72:PRINT USING "######";INT(CONCT)
5910 LOCATE 22,72:PRINT USING "######";INT(MGCT)
5920 LOCATE 25,25:PRINT "PRESS ANY KEY TO CONTINUE"
5930 A$=INKEY$:IF A$="" THEN GOTO 5930
5940 CLS:LOCATE 2,35
5950 PRINT "SUMMARY DATA":LOCATE 4,25
5960 PRINT "HOURS        COST        INFLA        FRINGE        TOTAL"
5970 LOCATE 6,1:PRINT "PRE-AWD SVY" :LOCATE 8,1:PRINT "SPO TOTALS"
5980 LOCATE 10,1:PRINT "SECURITY":LOCATE 12,1:PRINT "EEO SUPPORT"
5990 LOCATE 14,1:PRINT "SOC-ECON CST":LOCATE 16,1:PRINT "WARANTEE CST"
6000 LOCATE 18,1:PRINT "TERMIN CST":LOCATE 20,1:PRINT "NEW EQUIP"
6010 LOCATE 22,1:PRINT "FAC MOD CST"
6020 LOCATE 6,24:PRINT USING "######";INT(PRH)
6030 LOCATE 6,35:PRINT USING "######";INT(PRC)
6040 LOCATE 8,24:PRINT USING "######";INT(HRT)
6050 LOCATE 8,35:PRINT USING "######";INT(SPOC)
6060 LOCATE 10,35:PRINT USING "######";INT(SEC)
6070 LOCATE 12,35:PRINT USING "######";INT(EEOC)
6080 LOCATE 14,35:PRINT USING "######";INT(SOCEC)
6090 LOCATE 16,35:PRINT USING "######";INT(WARC)
6100 LOCATE 18,35:PRINT USING "######";INT(TERMC)
6110 LOCATE 20,35:PRINT USING "######";INT(ETC)
6120 LOCATE 22,35:PRINT USING "######";INT(FMODC)
6130 LOCATE 6,47:PRINT USING "######";INT(PRCI)
  40 LOCATE 8,47:PRINT USING "######";INT(SPOCI)
6150 LOCATE 6,60:PRINT USING "######";INT(PRCIF)
6160 LOCATE 8,60:PRINT USING "######";INT(SPOCIF)
6170 LOCATE 6,72:PRINT USING "######";INT(TOTIF)
6180 LOCATE 8,72:PRINT USING "######";INT(TOTTT)
6190 LOCATE 10,72:PRINT USING "######";INT(SEC)
6200 LOCATE 12,72:PRINT USING "######";INT(EEOC)
6210 LOCATE 14,72:PRINT USING "######";INT(SOCEC)
6220 LOCATE 16,72:PRINT USING "######";INT(WARC)
6250 LOCATE 18,72:PRINT USING "######";INT(TERMC)
6260 LOCATE 20,72:PRINT USING "######";INT(ETC)
6270 LOCATE 22,72:PRINT USING "######";INT(FMODC)
6280 LOCATE 25,25:PRINT "PRESS ANY KEY TO CONTINUE"
6290 A$=INKEY$:IF A$="" THEN GOTO 6290
6300 CLS:LOCATE 2,35
6310 PRINT "SUMMARY DATA":LOCATE 4,25
6320 PRINT "              COST        INFLA        FRINGE        TOTAL"
6330 LOCATE 6,1:PRINT "ADMIN & AUD" :LOCATE 8,1:PRINT "TRANSPORTATION"
6340 LOCATE 10,1:PRINT "SOLICITATION":LOCATE 12,1:PRINT "TOTAL CBO COST"
6350 LOCATE 14,1:PRINT "SAVINGS":LOCATE 16,1:PRINT "LOST OP  COST"
6360 LOCATE 18,1:PRINT "THEO SAVINGS"
6370 LOCATE 6,35:PRINT USING "######";INT(ADAC)
6380 LOCATE 6,72:PRINT USING "######";INT(ADAC)
6390 LOCATE 8,35:PRINT USING "######";INT(TRANC)
```

```
  )0 LOCATE 8,72:PRINT USING "#######";INT(TRANC)
 )410 LOCATE 10,35:PRINT USING "#######";INT(SOLC)
 )420 LOCATE 10,72:PRINT USING "#######";INT(SOLC)
 )430 LOCATE 12,35:PRINT USING "#######";INT(TCBOC)
 )440 LOCATE 12,72:PRINT USING "#######";INT(TCBFC)
 )450 LOCATE 14,35:PRINT USING "#######";INT(SAVEC)
 )460 LOCATE 14,72:PRINT USING "#######";INT(SAVEF)
 )470 LOCATE 16,35:PRINT USING "#######";INT(CBFC)
 )480 LOCATE 16,72:PRINT USING "#######";INT(CBFC)
 )490 LOCATE 18,35:PRINT USING "#######";INT(THEOC)
 )500 LOCATE 18,72:PRINT USING "#######";INT(THEOF)
 )510 LOCATE 25,25:PRINT "PRESS ANY KEY TO CONTINUE"
 )520 A$=INKEY$:IF A$="" THEN GOTO 6520 ELSE GOTO 6530
 )530 GOTO 6820
 )540 REM  THIS IS THE MODEL RESULTS SECTION
 )550 CLS
 )560 REM
 )570 LOCATE 10,10
 )580 PRINT "*************************************************************
 )590 LOCATE 11,10
 )600 PRINT "*
 )610 LOCATE 12,10
 )620 PRINT "*    DO YOU WISH TO VIEW THE RESULTS ON SCREEN OR PRINTER?
 )630 LOCATE 13,10
 )640 PRINT "*
  30 LOCATE 14,10
 )660 PRINT "*                          SELECT SCREEN (S) OR PRINTER (P)
 )670 LOCATE 15,10
 )680 PRINT "*************************************************************
 )690 LOCATE 14,66:PRINT "> "
 )700 G$=INKEY$:IF G$="" THEN GOTO 6700 ELSE GOTO 6710
 )710 IF G$="S" THEN GOTO 6730 ELSE GOTO 6720
 )720 IF G$="P" THEN GOTO 6740 ELSE GOTO 6690
 )730 GOSUB 6760:GOTO 6820
 )740 GOSUB 6790:GOTO 6990
 )750 REM THIS IS THE MODEL RESULTS ON THE SCREEN
 )760 CLS
 )770 GOTO 5390
 )780 RETURN
 )790 GOTO 7180
 )800 REM THIS IS THE PRINTER OUTPUT OF THE MODEL RESULTS SECTION
 )810 RETURN
 )820 CLS
 )830 REM
 )840 LOCATE 10,10
 )850 PRINT "*************************************************************
 )860 LOCATE 11,10
 )870 PRINT "*
 )880 LOCATE 12,10
 )890 PRINT "*     DO YOU WISH TO VIEW THE RESULTS ON THE PRINTER? (Y/N)
```

```
6900 LOCATE 13,10
6910 PRINT "*                                                                    *
6920 LOCATE 14,10
6930 PRINT "**********************************************************************
6940 LOCATE 12,70:PRINT "> "
6950 H$=INKEY$:IF H$="" THEN GOTO 6950 ELSE GOTO 6960
6960 IF H$="Y" THEN GOTO 6980 ELSE GOTO 6970
6970 IF H$="N" THEN GOTO 7480 ELSE GOTO 6940
6980 GOSUB 6790:GOTO 7480
6990 REM
7000 CLS
7010 LOCATE 10,10
7020 PRINT "**********************************************************************
7030 LOCATE 11,10
7040 PRINT "*                                                                    *
7050 LOCATE 12,10
7060 PRINT "*     DO YOU WISH TO VIEW THE RESULTS ON THE SCREEN? (Y/N)           *
7070 LOCATE 13,10
7080 PRINT "**********************************************************************
7090 LOCATE 12,69:PRINT "> "
7100 P$=INKEY$:IF P$="" THEN GOTO 7100 ELSE GOTO 7110
7110 IF P$="Y" THEN GOTO 7130 ELSE GOTO 7120
7120 IF P$="N" THEN GOTO 7480 ELSE GOTO 7090
7130 GOSUB 6760:GOTO 7480
7140 END
7150 REM     ************************************************************
7160 REM                        MODEL RESULTS TO PRINTER
7170 REM     ************************************************************
7180 LPRINT "**********************************************************************
**":LPRINT: LPRINT NAMNO$"                          SUMMARY OF RESULTS
TE$:LPRINT
7190 LPRINT "                    HOURS      COST       INFLA      FRINGE     TOTAL
7200 LPRINT
7210 LPRINT "SCREENING" TAB(20) INT(SH) TAB(30) INT(SCC) TAB(40) INT(SCI) TAB
) INT(SCIF) TAB(60) INT(SCCT):LPRINT
7220 LPRINT "PRICE ANAL" TAB(20) INT(PAH) TAB(30) INT(PAC) TAB(40) INT(PACI)
(50) INT(PACIF) TAB(60) INT(PACT):LPRINT
7230 LPRINT "SOURCE APP" TAB(20) INT(SAH) TAB(30) INT(SAC) TAB(40) INT(SACI)
(50) INT(SACIF) TAB(60) INT(SACT):LPRINT
7240 LPRINT "SOURCE DEV" TAB(20) INT(SDH) TAB(30) INT(SDC) TAB(40) INT(SDCI)
(50) INT(SDCIF) TAB(60) INT(SDCT):LPRINT
7250 LPRINT "SOURCE SEL" TAB(20) INT(SSH) TAB(30) INT(SSC) TAB(40) INT(SSCI)
(50) INT(SSCIF) TAB(60) INT(SSCT):LPRINT
7260 LPRINT "REVERSE ENG" TAB(20) INT(REH) TAB(30) INT(REC) TAB(40) INT(RECI)
B(50) INT(RECIF) TAB(60) INT(RECT):LPRINT
7270 LPRINT "FIRST ARTIC" TAB(20) INT(FAH) TAB(30) INT(FAC) TAB(40) INT(FACI)
B(50) INT(FACIF) TAB(60) INT(FACT):LPRINT
7280 LPRINT "CONTRACTING" TAB(20) INT(CONH) TAB(30) INT(CONC) TAB(40) INT(CONI
   B(50) INT(CONCIF) TAB(60) INT(CONCT):LPRINT
7290 LPRINT "GENERAL SPO" TAB(20) INT(MGH) TAB(30) INT(MGC) TAB(40) INT(MGCI)
B(50) INT(MGCIF) TAB(60) INT(MGCT):LPRINT
```

```
300 LPRINT "PRE-AWD SVY" TAB(20) INT(PRH) TAB(30) INT(PRC) TAB(40) INT(PRCI) T
(50) INT(PRCIF) TAB(60) INT(PRCT):LPRINT
310 LPRINT "SPO TOTALS" TAB(20) INT(TOTH) TAB(30) INT(TOTC) TAB(40) INT(TOTI)
B(50) INT(TOTIF) TAB(60) INT(TOTTT):LPRINT
320 LPRINT "SECURITY  " TAB(30) INT(SEC) TAB(60) INT(SEC):LPRINT
330 LPRINT "EEO SUPPORT" TAB(30) INT(EEOC) TAB(60) INT(EEOC):LPRINT
340 LPRINT "SOC-ECON CST" TAB(30) INT(SOCEC) TAB(60) INT(SOCEC):LPRINT
350 LPRINT "WARANTEE CST" TAB(30) INT(WARC) TAB(60) INT(WARC):LPRINT
360 LPRINT "TERMIN CST " TAB(30) INT(TERMC) TAB(60) INT(TERMC):LPRINT
370 LPRINT "NEW EQUIP  " TAB(30) INT(ETC) TAB(60) INT(ETC):LPRINT
380 LPRINT "FAC MOD CST" TAB(30) INT(FMODC) TAB(60) INT(FMODC):LPRINT
390 LPRINT "ADMIN & AUD" TAB(30) INT(ADAC) TAB(60) INT(ADAC):LPRINT
400 LPRINT "TRANSPORTATION" TAB(30) INT(TRANC) TAB(60) INT(TRANC):LPRINT
410 LPRINT "SOLICITATION" TAB(30) INT(SOLC) TAB(60) INT(SOLC):LPRINT
420 LPRINT "TOTAL CBO COST" TAB(30) INT(TCBOC) TAB(60) INT(TCBFC):LPRINT
430 LPRINT "SAVINGS   " TAB(30) INT(SAVEC) TAB(60) INT(SAVEF):LPRINT
440 LPRINT "LOST OPT COST" TAB(30) INT(CBFC) TAB(60) INT(CBFC):LPRINT
450 LPRINT "THEO SAVINGS" TAB(30) INT(THEOC) TAB(60) INT(THEOF):LPRINT
460 LPRINT "**********************************************************************

470 GOTO 6800
480 REM     ***************************************************************
490 REM                          MODELS MENU SELECTION
 0 REM     ***************************************************************
 10 CLS
520 REM
530 LOCATE 6,10
540 PRINT "**********************************************************************"
550 LOCATE 7,10
560 PRINT "*                                                                    *"
570 LOCATE 8,10
580 PRINT "*         PRESS H IF YOU WISH TO GO TO THE HELP MENU...              *"
590 LOCATE 9,10
600 PRINT "*                                                                    *"
610 LOCATE 10,10
620 PRINT "*         PRESS E IF YOU WISH TO ENTER NEW DATA....                  *"
630 LOCATE 11,10
640 PRINT "*                                                                    *"
650 LOCATE 12,10
660 PRINT "*         PRESS C IF YOU WISH TO DO ANOTHER CALCULATION...           *"
670 LOCATE 13,10
680 PRINT "*                                                                    *"
690 LOCATE 14,10
```

```
7700 PRINT "*          PRESS V IF YOU WISH TO VIEW INPUT DATA....                *"
7710 LOCATE 15,10
7720 PRINT "*                                                                    *"
7730 LOCATE 16,10
7740 PRINT "*          PRESS S IF YOU WISH TO STOP.....                          *"
7750 LOCATE 17,10
7760 PRINT "*                                                                    *"
7770 LOCATE 18,10
7780 PRINT "**********************************************************************"
7790 LOCATE 16,66:PRINT "> "
7800 B$=INKEY$:IF B$="" THEN GOTO 7800 ELSE GOTO 7810
7810 IF B$="H" THEN GOTO 7860 ELSE GOTO 7820
7820 IF B$="E" THEN GOTO 7880 ELSE GOTO 7830
7830 IF B$="C" THEN GOTO 7900 ELSE GOTO 7840
7840 IF B$="V" THEN GOTO 7920 ELSE GOTO 7850
7850 IF B$="S" THEN GOTO 7940 ELSE GOTO 7480
7860 CLS:LOCATE 15,25:PRINT "THE HELP PROGRAM IS LOADING."
7870 RUN  "BEGINY"
7880 CLS:LOCATE 15,25:PRINT "THE DATA ENTRY PROGRAM IS LOADING."
7890 RUN  "ENTERY"
7900 CLS
7910 GOTO 50
7920 CLS:LOCATE 15,25:PRINT "THE VIEW INPUT  PROGRAM IS LOADING."
7930 RUN  "DATINY"
7940 STOP
7950 END
```

A. COMPUTER PROGRAMS

A.4 DATINN

```
) REM  THIS IS THE INPUT DATA PROGRAM FOR THE PRINTER
) REM
) REM ..............DATINN.BAS.....................
)  DIM A1(9),A2(9),A3(9),A4(9),A5(9),A6(9),A7(9),A8(9)
)  DIM A1T$(9),A2T$(9),A3T$(9),A4T$(9),A5T$(9),A6T$(9),A7T$(9),A8T$(9)
) CLS:LOCATE 10,10
) PRINT "*************************************************************"
) LOCATE 11,10
) PRINT "*                                                           *"
)0 LOCATE 12,10
10 PRINT "*                  SELECT SCREEN (S) OR PRINTER (P)         *"
20 LOCATE 13,10
30 PRINT "*                                                           *"
40 LOCATE 14,10
50 PRINT "*                        FOR INPUT DATA                     *"
60 LOCATE 15,10
70 PRINT "*                                                           *"
80 LOCATE 16,10
90 PRINT "*                  SELECT (C) TO BEGIN CALCULATIONS         *"
)0 LOCATE 17,10
 0 PRINT "*                                                           *"
20 LOCATE 18,10
 0 PRINT "*************************************************************"
40 F$=INKEY$:IF F$="" THEN GOTO 240 ELSE GOTO 250
50 IF F$="S" GOTO 290
60 IF F$="P" GOTO 1930
70 IF F$="C" GOTO 2930
80 GOTO 60
90 CLOSE #1
)0 REM
 0 REM
20 KEY OFF
30 CLS
40 LOCATE 3,10
50 PRINT "*************************************************************"
60 LOCATE 4,10
70 PRINT "*                                                           *"
80 LOCATE 5,10
90 PRINT "*             THE FOLLOWING FILES ARE AVAILABLE             *
)0 LOCATE 6,10
 0 PRINT "*                                                           *"
10 LOCATE 7,10
20 PRINT "*************************************************************"
 0 LOCATE 9,5:FILES "*.DAT"
50 LOCATE 18,15:PRINT "NOTE:  ENTER A 4 LETTERS FOLLOWED BY 1 NUMBER"
60 LOCATE 25,15:PRINT "                                                "
70 LOCATE 19,22:PRINT "FOLLOWED BY .DAT (PLUS CARRIAGE RETURN)"
 0 LOCATE 21,20:PRINT "EXAMPLES: PROD4.DAT   EXAM8.DAT   TEST5.DAT"
90 LOCATE 15,59:COLOR 0,7:PRINT"          ":COLOR 7,0
```

```
500 LOCATE 15,5:BEEP
510 INPUT "WHAT PROGRAM DO YOU WISH TO RUN (PROGRAM NAME/NUMBER)";NAMNO$
520 GOSUB 1840
530 REM  THIS IS THE BEGINNING OF THE QUESTIONING .....
540 CLS
550 LOCATE 2,30:PRINT "PROGRAM....."NAMNO$
560 LOCATE 4,10
570 PRINT "1. HOW MANY AF PERSONNEL CONDUCTED SCREENING?....."A1$(1)
580 LOCATE 5,10
590 PRINT "2. WHAT IS THEIR AVERAGE GS GRADE?....."A2$(2)
600 LOCATE 6,10
610 PRINT "3. HOW MANY WEEKS DID THE SCREENING REQUIRE?....."A3$(1)
620 LOCATE 7,10
630 PRINT "4. SCREENING REQUIRED WHAT PERCENT OF THEIR TIME?....."A4$(1)
640 LOCATE 8,10
650 PRINT "5. WHAT WAS THE PRIME'S PRICE FOR CBO ITEMS?....."A5$(1)
660 LOCATE 9,10
670 PRINT "6. WHAT IS THE NEW CONTRACTOR'S PRICE FOR THESE ITEMS?..."A6$(1)
680 LOCATE 10,10
690 PRINT "7. WHAT IS THE INFLATION RATE (SEE HELP SCREEN)?....."A7$(1)
700 LOCATE 11,10
710 PRINT "8. WHAT IS THE FRINGE BENEFIT RATE (SEE HELP SCREEN)?...."A8$(1)
720 LOCATE 13,10
730 PRINT "1. WILL YOU CONDUCT A PRICE ANALYSIS (Y/N)?....."A1$(2)
740 LOCATE 14,10
750 PRINT "2. WILL THIS BE A LEVEL I ANALYSIS (Y/N)?....."A2$(2)
760 LOCATE 15,10
770 PRINT "3. WHAT WILL BE THE AVERAGE GRADE OF THE ANALYSTS ?....."A3$(2)
780 LOCATE 16,10
790 PRINT "4. HOW MANY SOURCE APPROVALS WILL BE REQUIRED ?....."A3$(2)
800 LOCATE 17,10
810 PRINT "5. HOW MANY PLANT VISITS FOR THIS SOURCE APP.?....."A4$(2)
820 LOCATE 18,10
830 PRINT "6. HOW MANY AF PERSONNEL WILL MAKE THESE VISITS?....."A6$(2)
840 LOCATE 19,10
850 PRINT "7. WHAT IS THE AVERAGE GRADE OF THESE VISITORS?....."A7$(2)
860 LOCATE 20,10
870 PRINT "8. IS THIS A SOLE SOURCE PROCUREMENT? (Y/N)....."A8$(2)
880 LOCATE 24,25:PRINT "PRESS ANY KEY TO CONTINUE"
890 A$=INKEY$:IF A$=""THEN GOTO 890 ELSE GOTO 900
```

```
 0 CLS
10 LOCATE 2,30:PRINT "PROGRAM....."NAMNO$
20 LOCATE 4,10
30 PRINT "1. WILL REVERSE ENGINEERING BE ATTEMPTED? (Y/N)....."A1$(3)
40 LOCATE 5,10
50 PRINT "2. WILL IT BE A LEVEL I EFFORT? (Y/N)....."A2$(3)
60 LOCATE 6,10
70 PRINT "3. THE AVERAGE GRADE OF THESE ENGINEERS WILL BE ....."A3$(3)
80 LOCATE 7,10
90 PRINT "4. WILL A PRE-AWARD SURVEY BE CONDUCTED? (Y/N)....."A4$(3)
000 LOCATE 8,10
010 PRINT "5. WILL THIS SURVEY REQUIRE ON-SITE VISITS? (Y/N)....."A5$(3)
020 LOCATE 9,10
030 PRINT "6. HOW MANY VISITS WILL BE REQUIRED?....."A6$(3)
040 LOCATE 10,10
050 PRINT "7. HOW MANY PERSONNEL ON THE AF VISIT TEAM?....."A7$(3)
060 LOCATE 11,10
070 PRINT "8. WHAT IS THE AVERAGE GS GRADE OF THIS TEAM?....."A8$(3)
080 LOCATE 13,10
090 PRINT "1. IS THIS ANALYSIS FOR MORE THAN ONE ITEM? (Y/N)....."A1$(4)
100 LOCATE 14,10
110 PRINT "2. HOW MANY CLASS 1 (8.5 BY 11) DRAWINGS IN THE PACKAGE?."A2$(4)
120 LOCATE 15,10
130 PRINT "3. WHAT IS THE WEIGHT OF THE ITEM(S)?....."A3$(4)
 40 LOCATE 16,10
 50 PRINT "4. WHAT IS THE TOTAL SPO BUDGET?....."A4$(4)
 60 LOCATE 17,10
 70 PRINT "5. WHO MANY MONTHS ARE AVAILABLE TO SPND THIS BUDGET?...."A5$(4)
 80 LOCATE 18,10
 90 PRINT "6. WILL THERE BE A FIRST ARTICLE QUALIFICATION? (Y/N)?..."A6$(4)
200 LOCATE 19,10
210 PRINT "7. HOW MANY AF PERS WILL BE INVOLVED IN THIS QUAL?....."A7$(4)
220 LOCATE 20,10
230 PRINT "8. WHAT WILL BE THE GS GRADE OF THIS TEAM?....."A8$(4)
240 LOCATE 24,25:PRINT "PRESS ANY KEY TO CONTINUE"
250 A$=INKEY$:IF A$=""THEN GOTO 1250 ELSE GOTO 1260
260 CLS
270 LOCATE 2,30:PRINT "PROGRAM....."NAMNO$
280 LOCATE 4,10
 90 PRINT "1. WILL THE NEW CONTRACTOR REQUIRE EEO SUPPORT? (Y/N)...."A1$(5)
300 LOCATE 5,10
 10 PRINT "2. WILL HE REQUIRE SOCIO-ECONOMIC SUPPORT? (Y/N)....."A2$(5)
 20 LOCATE 6,10
 30 PRINT "3. WHAT WILL WARRANTEES COST?....."A3$(5)
 40 LOCATE 7,10
 50 PRINT "4. WHAT WILL BE THE PARTIAL TERMINATION COST TO THE AF ?."A4$(5)
 60 LOCATE 8,10
 70 PRINT "5. HOW MANY MILES FROM THE NEW SOURCE TO THE PRIME?....."A5$(5)
 80 LOCATE 9,10
 90 PRINT "6. HOW MANY TECHNICAL REVIEWS WILL BE REQUIRED?....."A6$(5)
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1400 LOCATE 10,10
1410 PRINT "7. WHAT IS THE COST OF NEW EQUIPMENT/TOOLS?....."A7$(5)
1420 LOCATE 11,10
1430 PRINT "8. WHAT IS THE COST OF FACILITY MODIFICATIONS?....."A8$(5)
1440 LOCATE 13,10
1450 PRINT "1. WHAT IS THE AVE. GRADE OF THE CONTRACTING TEAM?......."A1$(6)
1460 LOCATE 14,10
1470 PRINT "2. HOW MANY SOURCES WILL BE DEVELOPED?....."A2$(6)
1480 LOCATE 15,10
1490 PRINT "3. HOW MANY PLANT VISITS FOR SOURCE DEVELOPMENT?....."A3$(6)
1500 LOCATE 16,10
1510 PRINT "4. HOW MANY AF VISITORS ON EACH TRIP?....."A4$(6)
1520 LOCATE 17,10
1530 PRINT "5. WHAT WILL BE THEIR AVERAGE GRADE?....."A5$(6)
1540 LOCATE 18,10
1550 PRINT "6. HOW MANY EMPLOYEES AT THE NEW CONTRACTOR'S FACILITY?.."A6$(6)
1560 LOCATE 19,10
1570 PRINT "7. WHAT IS THE HIGHEST CLASSIFICATION OF CBO ITEMS?....."A7$(6)
1580 LOCATE 20,10
1590 PRINT "8. THE NO OF NEW CONTR PERS REQUIRING CLEARANCES IS....."A8$(6)
1600 LOCATE 24,25:PRINT "PRESS ANY KEY TO CONTINUE"
1610 A$=INKEY$:IF A$=""THEN GOTO 1610 ELSE GOTO 1620
1620 CLS
1630 LOCATE 2,30:PRINT "PROGRAM....."NAMNO$
1640 LOCATE 4,10
1650 PRINT "1. HOW MANY PROPOSALS IN SOURCE SELECTION?....."A1$(7)
1660 LOCATE 5,10
1670 PRINT "2. HOW MANY AF PEOPLE IN THE SOURCE SELECTION?....."A2$(7)
1680 LOCATE 6,10
1690 PRINT "3. WHAT IS THEIR AVERAGE GRADE?....."A3$(7)
1700 LOCATE 7,10
1710 PRINT "4. MONTHS OF SPO CBO MGT RESPONSIBILITY IS....."A4$(7)
1720 LOCATE 8,10
1730 PRINT "5. AVE. HRS. PER WEEK IN GEN. CBO MANAGEMENT IS....."A5$(7)
1740 LOCATE 9,10
1750 PRINT "6. AVE. GRADE OF THE SPO CBO MANAGEMENT TEAM IS....."A6$(7)
1760 LOCATE 10,10
1770 PRINT "7. HOW MANY SOLICITATIONS WILL BE SENT OUT?....."A7$(7)
1780 LOCATE 11,10
1790 PRINT "8. WHAT IS THE AVERAGE NO. OF PERSONNEL IN THE SPO?....."A8$(7)
1800 LOCATE 24,25:PRINT "PRESS ANY KEY TO CONTINUE"
1810 A$=INKEY$:IF A$=""THEN GOTO 1810 ELSE GOTO 1820
1820 CLS
1830 GOTO 1910
1840 REM THIS SUBROUTINE ENTERS PREVIOUS DATA INTO THE MODEL
1850 OPEN NAMNO$ FOR INPUT AS #1
1860 FOR I = 1 TO 7
1870 INPUT #1,A1$(I),A2$(I),A3$(I),A4$(I),A5$(I),A6$(I),A7$(I),A8$(I)
1880 NEXT
1890 CLOSE #1
```

```
1900 RETURN
1910 CLOSE #1
1920 GOTO 60
1930 REM
1940 REM
1950 CLOSE #1
1960 REM
1970 KEY OFF
1980 CLS
1990 LOCATE 3,10
2000 PRINT "*************************************************************
2010 LOCATE 4,10
2020 PRINT "*                                                           *
2030 LOCATE 5,10
2040 PRINT "*              THE FOLLOWING FILES ARE AVAILABLE            *
2050 LOCATE 6,10
2060 PRINT "*                                                           *
2070 LOCATE 7,10
2080 PRINT "*************************************************************
2090 LOCATE 9,5:FILES "*.DAT"
2100 LOCATE 18,15:PRINT "NOTE:  ENTER A 4 LETTERS FOLLOWED BY 1 NUMBER"
2110 LOCATE 25,15:PRINT "                                              "
2120 LOCATE 19,22:PRINT "FOLLOWED BY .DAT (PLUS CARRIAGE RETURN)"
2130 LOCATE 21,20:PRINT "EXAMPLES: PROD4.DAT   EXAM8.DAT   TEST5.DAT"
2140 LOCATE 15,59:COLOR 0,7:PRINT"          ":COLOR 7,0
2150 LOCATE 15,5:BEEP
2160 INPUT "WHAT PROGRAM DO YOU WISH TO RUN (PROGRAM NAME/NUMBER)";NAMNO$
2170 GOSUB 2840
2180 REM  THIS IS THE BEGINNING OF THE QUESTIONING .....................

2190 CLS
2200 LPRINT DATE$"..............................."NAMNO$:LPRINT
2210 LPRINT "1. HOW MANY AF PERSONNEL CONDUCTED SCREENING?....."A1$(1)
2220 LPRINT "2. WHAT IS THEIR AVERAGE GS GRADE?................."A2$(1)
2230 LPRINT "3. HOW MANY WEEKS DID THE SCREENING REQUIRE?......."A3$(1)
2240 LPRINT "4. SCREENING REQUIRED WHAT PERCENT OF THEIR TIME?.."A4$(1)
2250 LPRINT "5. WHAT WAS THE PRIME'S PRICE FOR CBO ITEMS?......."A5$(1)
2260 LPRINT "6. WHAT IS THE NEW CONTRACTOR'S PRICE FOR THE ITEMS?....."A6$(1)
2270 LPRINT "7. WHAT IS THE INFLATION RATE (SEE HELP SCREEN)?....."A7$(1)
2280 LPRINT "8. WHAT IS THE FRINGE BENEFIT RATE (SEE HELP SCREEN)?..."A8$(1)
2290 LPRINT
2300 LPRINT "1. WILL YOU CONDUCT A PRICE ANALYSIS (Y/N)?......."A1$(2)
2310 LPRINT "2. WILL THIS BE A LEVEL I ANALYSIS (Y/N)?........."A2$(2)
2320 LPRINT "3. WHAT WILL BE THE AVERAGE GRADE OF THE ANALYSTS ?....."A3$(2)
2330 LPRINT "4. HOW MANY SOURCE APPROVALS WILL BE REQUIRED ?....."A4$(2)
2340 LPRINT "5. HOW MANY PLANT VISITS FOR THIS SOURCE APP.?....."A5$(2)
2350 LPRINT "6. HOW MANY AF PERSONNEL WILL MAKE THESE VISITS?....."A6$(2)
2360 LPRINT "7. WHAT IS THE AVERAGE GRADE OF THESE VISITORS?....."A7$(2)
2370 LPRINT "8. IS THIS A SOLE SOURCE PROCUREMENT? (Y/N)....."A8$(2)
2380 LPRINT
2390 LPRINT "1. WILL REVERSE ENGINEERING BE ATTEMPTED? (Y/N)....."A1$(3)
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```
 )0 LPRINT "2. WILL IT BE A LEVEL I EFFORT? (Y/N)....................."A2$(3)
+10 LPRINT "3. THE AVERAGE GRADE OF THESE ENGINEERS WILL BE ........."A3$(3)
+20 LPRINT "4. WILL A PRE-AWARD SURVEY BE CONDUCTED? (Y/N)..........."A4$(3)
+30 LPRINT "5. WILL THIS SURVEY REQUIRE ON-SITE VISITS? (Y/N)........"A5$(3)
+40 LPRINT "6. HOW MANY VISITS WILL BE REQUIRED?....................."A6$(3)
+50 LPRINT "7. HOW MANY PERSONNEL ON THE AF VISIT TEAM?............."A7$(3)
+60 LPRINT "8. WHAT IS THE AVERAGE GS GRADE OF THIS TEAM?..........."A8$(3)
+70 LPRINT
480 LPRINT "1. IS THIS ANALYSIS FOR MORE THAN ONE ITEM? (Y/N)........"A1$(4)
490 LPRINT "2. HOW MANY CLASS 1 (8.5 BY 11) DRAWINGS IN THE PACKAGE?."A2$(4)
500 LPRINT "3. WHAT IS THE WEIGHT OF THE ITEM(S)?..................."A3$(4)
510 LPRINT "4. WHAT IS THE TOTAL SPO BUDGET?........................."A4$(4)
520 LPRINT "5. HOW MANY MONTHS ARE AVAILABLE TO SPEND THIS BUDGET?..."A5$(4)
530 LPRINT "6. WILL THERE BE A FIRST ARTICLE QUALIFICATION? (Y/N)?..."A6$(4)
540 LPRINT "7. HOW MANY AF PERS WILL BE INVOLVED IN THIS QUAL?......."A7$(4)
550 LPRINT "8. WHAT WILL BE THE GS GRADE OF THIS TEAM?..............."A8$(4)
560 LPRINT
570 LPRINT "1. WILL THE NEW CONTRACTOR REQUIRE EEO SUPPORT? (Y/N)...."A1$(5)
580 LPRINT "2. WILL HE REQUIRE SOCIO-ECONOMIC SUPPORT? (Y/N)........."A2$(5)
590 LPRINT "3. WHAT WILL WARRANTEES COST?..........................."A3$(5)
>00 LPRINT "4. WHAT WILL BE THE PARTIAL TERMINATION COST TO THE AF ?."A4$(5)
>10 LPRINT "5. HOW MANY MILES FROM THE NEW SOURCE TO THE PRIME?....."A5$(5)
>20 LPRINT "6. HOW MANY TECHNICAL REVIEWS WILL BE REQUIRED?........."A6$(5)
>30 LPRINT "7. WHAT IS THE COST OF NEW EQUIPMENT/TOOLS?............."A7$(5)
>40 LPRINT "8. WHAT IS THE COST OF FACILITY MODIFICATIONS?..........."A8$(5)
 50 LPRINT
>60 LPRINT "1. WHAT IS THE AVE. GRADE OF THE CONTRACTING TEAM?......."A1$(6)
>70 LPRINT "2. HOW MANY SOURCES WILL BE DEVELOPED?..................."A2$(6)
>80 LPRINT "3. HOW MANY PLANT VISITS FOR SOURCE DEVELOPMENT?........."A3$(6)
>90 LPRINT "4. HOW MANY AF VISITORS ON EACH TRIP?...................."A4$(6)
700 LPRINT "5. WHAT WILL BE THEIR AVERAGE GRADE?....................."A5$(6)
710 LPRINT "6. HOW MANY EMPLOYEES AT THE NEW CONTRACTOR'S FACILITY?.."A6$(6)
720 LPRINT "7. WHAT IS THE HIGHEST CLASSIFICATION OF CBO ITEMS?....."A7$(6)
730 LPRINT "8. THE NO OF NEW CONTR PERS REQUIRING CLEARANCES IS....."A8$(6)
740 LPRINT
750 LPRINT "1. HOW MANY PROPOSALS IN SOURCE SELECTION?..............."A1$(7)
760 LPRINT "2. HOW MANY AF PEOPLE IN THE SOURCE SELECTION?..........."A2$(7)
770 LPRINT "3. WHAT IS THEIR AVERAGE GRADE?........................."A3$(7)
780 LPRINT "4. MONTHS OF SPO CBO MGT RESPONSIBILITY IS.............."A4$(7)
790 LPRINT "5. AVE. HRS. PER WEEK IN GEN. CBO MANAGEMENT IS........."A5$(7)
800 LPRINT "6. AVE. GRADE OF THE SPO CBO MANAGEMENT TEAM IS........."A6$(7)
810 LPRINT "7. HOW MANY SOLICITATIONS WILL BE SENT OUT?............."A7$(7)
820 LPRINT "8. WHAT IS THE AVE. NO. OF PERSONNEL IN THE SPO?........."A8$(7)
830 GOTO 2910
840 REM THIS SUBROUTINE ENTERS PREVIOUS DATA INTO THE MODEL
850 OPEN NAMNO$ FOR INPUT AS #1
860 FOR I = 1 TO 7
870 INPUT #1,A1$(I),A2$(I),A3$(I),A4$(I),A5$(I),A6$(I),A7$(I),A8$(I)
880 NEXT
890 CLOSE #1
```

```
 900 RETURN
2910 CLOSE #1
2920 GOTO 60
2930 REM
2940 CLS:LOCATE 15,25
2950 PRINT "THE CALCULATIONS PROGRAM IS LOADING"
2960 RUN  "CALCUY"
2970 END
```